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ACUTE ORAL TOXICITY (LD $_{50}$) OF GUANIDINE HYDROCHLORIDE IN RATS

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TOXICOLOGY GROUP
DIVISION OF RESEARCH SUPPORT

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Acute Oral Toxicity (LD₅₀) of Guanidine Hydrochloride in Rats (Toxicology Series 77)—Morgan, Sano, and Korte

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20. ABSTRACT (Continue/as reverse side if necessary and identify by block number)

The acute eral toxicity of guanidine hydrochloride was determined in male and female Sprague-Dawley rats by using the oral gavage single-dose method. The LD₅₀ + S.E. for male rats was 556.5 + 29.7 mg(base)/kg and 474.6 + 35.3 mg(base)/kg for female rats. Clinical signs were observed in both the gastrointestinal (GI) tract and the central nervous system-neuromuscular junction (CNS-NM). Symptoms referable to the GI tract included increased salivation, hunched posture, and diarrhea. CNS-NM signs included (CONTINUED ON REVERSE)

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ABSTRACT

The acute oral toxicity of guanidine hydrochloride was determined in male and female Sprague-Dawley rats by using the oral gavage single-dose method. The LD₅₀ + S.E. for male rats was 556.5 + 29.7 mg(base)/kg and 474.6 + 35.3 mg(base)/kg for female rats. Clinical signs were observed in both the gastrointestinal (GI) tract and the central nervous system-neuromuscular junction (CNS-NM). Symptoms referable to the GI tract included increased salivation, hunched posture, and diarrhea. CNS-NM signs included disorientation, increased startle reflex, hyperactivity, jumping behavior, presence of tremors/twitching and depression of grasping and righting reflexes. These results place guanidine hydrochloride in slightly toxic and moderately toxic ranges respectively.

KEY WORDS: Acute Oral Toxicity, Guanidine Hydrochloride, ${\rm LD}_{50}$, Mammalian Toxicology

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PREFACE

TYPE REPORT: Acute Oral Toxicity (LD $_{50}$) GLP Study Report

TESTING FACILITY: US Army Medical Research and Development Command

Letterman Army Institute of Research Presidio of San Francisco, CA 94129-6800

SPONSOR: US Army Medical Research and Development Command

US Army Medical Bioengineering Research

and Development Command

Fort Detrick, Frederick, MD 21701-5010 Project Officer: Jesse Barkley, MS

PROJECT/WORK UNIT/APC: Nitrocellulose-Nitroguanidine Projects,

WU 180, APC TL09

GLP STUDY NUMBER: 83019

STUDY DIRECTOR: MAJ Don W. Korte Jr., PhD, MS

PRINCIPAL INVESTIGATOR: CPT Earl W. Morgan, DVM, VC

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PATHOLOGIST: MAJ Glen E. Marrs, DVM, MS, VC, Diplomate of American

College of Veterinary Pathologists

DATA MANAGER: Carolyn M. Lewis, MS

REPORT AND DATA MANAGEMENT: A copy of the final report, study

protocol, retired SOPs, raw data,

analytical, stability, and purity data of

the test compound, tissues, and an aliquot of the test compound will be

retained in the LAIR Archives.

TEST SUBSTANCE: Guanidine Hydrochloride

INCLUSIVE STUDY DATES: 19 January - 14 February 1984

OBJECTIVE: The objective of this study was to determine the acute

oral toxicity of guanidine hydrochloride in male and

female Sprague-Dawley rats.

ACKNOWLEDGMENT

The authors wish to thank the following individuals for their contributions to the successful completion of this study: SP5 Thomas P. Kellner, BA, SP5 Justo Rodriguez, BS, Gerald F.S. Hiatt, Ph.D., Carolyn M. Lewis, MS, Susan Hernandez, and Edward Sands for research assistance; Callie B. Crosby, and Brenda V. Goce for secretarial assistance. The authors would also like to thank Dr. Gunda Reddy, US Army Medical Bioengineering Research and Development Laboratory, for his technical and administrative assistance on this project.

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SIGNATURES OF PRINCIPAL SCIENTISTS AND MANAGERS INVOLVED IN THE STUDY

We, the undersigned, declare that GLP Study Number 83019 was performed under our supervision, according to the procedures described herein, and that this report is an accurate record of the results obtained.

MAJ, MS

Study Director

MÁJ, VC Pathologist

EARL W. MORGAN, DVM / DATE

CPT, VC

Principal Investigator

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DEPARTMENT OF THE ARMY

LETTERMAN ARMY INSTITUTE OF RESEARCH PRESIDIO OF SAN FRANCISCO, CALIFORNIA 94129

REPLY TO ATTENTION OF:

SGRD-ULZ-QA

18 August 1985

MEMORANDUM FOR RECORD

SUBJECT: Report of GLP Compliance

1. I hereby certify that in relation to LAIR GLP Study 83019 the following inspections were made:

31 January 1984

- 2. The report and raw data for this study were audited on 25 February 1985.
- 3. Routine inspections with no adverse findings are reported quarterly, thus these inspections are also included in the 11 April 1984 report to Management and the Study Director.

SARY LA DUTCHER

SPG, USA

Quality Assurance Unit

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Mortality

Acute Oral Toxicity (LD $_{50}$) of Guanidine Hydrochloride in Rats--Morgan et al

Nitroguanidine is being evaluated by the US Army as a replacement for the nitrocellulose component of certain propellants/munitions. The US Army Medical Bioengineering Research and Development Laboratory (USAMBRDL) has been assigned the mission of evaluating the "health effects" of nitroguanidine. As part of their mandate, USAMBRDL has tasked the Toxicology Group, LAIR to develop a toxicological profile for nitroguanidine and by-products of its manufacture in accordance with the Toxic Substances Control Act regulations promulgated by the Environmental Protection Agency. One of the by-products to be tested is guanidine. The hydrochloride salt was used in this evaluation of the acute toxicity of guanidine.

Objective of Study

The objective of this study was to determine the acute oral toxicity of guanidine hydrochloride in male and female albino Sprague-Dawley rats.

MATERIALS

Test Substance

Chemical name: Guanidine Hydrochloride

Chemical Abstract Service Registry No.: 050-01-1

Chemical structure:

$$\begin{bmatrix} NH_2 \\ || \\ H_2N-C-NH_2 \end{bmatrix}^{\Theta} CI^{\Theta}$$

Molecular formula: CH_N._HC1

Other test substance information is presented in Appendix A.

Vehicle

The vehicle for guanidine hydrochloride was sterile water for injection, obtained from Cutter Laboratory, Inc, Emeryville, CA. The expiration date was April 1984.

Animal Data

Seventy-eight male and 73 female Sprague-Dawley rats from Bantin Kingman, Fremont, CA, were used for this study. They were identified individually with ear tags numbered 84D00210 - 84D00214 and 84D00450 - 84D00595 inclusive. Two males and 2 females were selected randomly for quality control necropsy evaluation at receipt. Thirty-seven of the animals were used for an Approximate Lethal Dose (ALD) determination. The animal weights on receipt (19 Jan 84) ranged from 117 to 180 g. Additional animal data appear in Appendix B.

Husbandry

Rats were caged individually in stainless steel wire mesh cages in racks equipped with automatically flushing dump tanks. No bedding was used in any of the cages. The diet, fed ad libitum, consisted of Certified Purina Rodent Chow Diet 5002 (Ralston Purina Company, Checkerboard Square, St. Louis, MO); water was provided by continous drip from a central line. The animal room temperature was maintained in a range from 23.2°C to 25°C with a relative humidity range of 40 to 53 percent. The photoperiod was 12 hours of light per day.

METHODS

Group Assignment/Acclimation

Study rats were randomized into 5 dose groups of 9 males and 9 females each and vehicle and cage control groups of 5 males and 5 females each. Allocation was accomplished using a computer based stratified, weight biased method. The Beckman TOXSYS Animal Allocation Program was used in conjunction with a Beckman TOXSYS Data Collection Terminal. The animals were acclimated for 11 days before the day of dosing. During this period they were observed daily for signs of illness.

Dosage Levels

The results of the ALD determination suggested that the LD_{50} was between 500 and 600 mg (base) per kg. Based on these data, test dosages were selected (Table 1).

Table 1 Guanidine Hydrochloride Dosages

Group	Dosage Level mg(base)/kg
1	278
2	360
3	464
4	600
5	775
6 (vehicle control)	0.9 ml water
7 (cage control)	

Compound Preparation

Since the dose of guanidine hydrochloride administered was expressed in terms of the base equivalent, it was necessary to correct for the weight of the hydrochloride moiety. On a molecular weight basis, the hydrochloride salt is 1.63 times the weight of the base equivalent and this factor was used to calculate the quantity of guanidine hydrochloride required to achieve the required dosage levels. Since guanidine hydrochloride is freely soluble in water, all dosing solutions were prepared by mixing the guanidine hydrochloride in an appropriate volume of sterile water for injection immediately before dosing the animals.

Chemical Analysis of Dosing Solution

Guanidine hydrochloride was stable in the vehicle for 4 hours (Appendix A). This was sufficient since dosing was begun as soon as the solutions were prepared and completed within 2 hours. Tests for homogeneity of the test compound in the vehicle were not applicable as the test compound was in solution.

Test Procedures

This study was conducted in accordance with EPA guidelines (1) and LAIR SOP-OP-STX-36, 22 December 82 (2).

The volume of dosing solution each animal received was based upon the desired dose level, and the compound concentration in solution. The dose level was increased by varying the concentration of each solution. Volumes ranged from 0.74 to 1.02 ml in the males and 0.59 to 0.74 in females. The vehicle control group was given 0.9 ml of sterile water. The cage control group was untreated. Dosing was performed using the oral gavage method without animal sedation or anesthesia. Sterile disposable syringes (Becton, Dickenson & Co.,

Rutherford, NJ) fitted with 16 gauge, 3-inch, ball-tipped feeding tubes (Popper & Sons, Inc., New Hyde Park, NY) were utilized. All animals were dosed between 0844 and 1040 hours on 31 January 1984.

Observations

Observations for mortality and signs of acute toxicity were performed daily according to the following procedure: (a) animals were observed undisturbed in their cages, (b) animals were removed from their cages and given a physical examination, and (c) animals were observed after being returned to their cages. On the day of dosing, the animals were checked intermittently throughout the day. Recorded observations were performed 2 and 4 hours after dosing and daily for the remainder of the 2 week test period. A second "walk through" observation was performed daily with only significant observations recorded. Body weights were recorded twice weekly during the course of the study.

Necropsy

Animals that died during the observation period were submitted for a complete gross necropsy. Those which survived the 14-day study period were submitted for necropsy immediately after sacrifice by barbituate overdose. A complete histopathologic examination was performed on the central nervous system (CNS) of four rats that had neurological symptoms.

Statistical Analysis

Statistical analyses were performed on the study results. The ${\rm LD}_{10}$, ${\rm LD}_{50}$, and ${\rm LD}_{90}$ were derived by probit analysis using the maximum likelihood method, as described by Finney (3). The program, PROBIT, developed for the Data General Computer, Model MV8000, was used to determine the probit curve and lethal dose values.

Duration of Study

Appendix C is a complete listing of historical events.

Changes/Deviations

The dosing phase of this study was accomplished according to the protocol and applicable amendments with three exceptions: (a) randomization into dose groups was redone on 25 January 1984 after reducing the group size from 10 to 9 animals, (b) acclimatization of the animals to the dosing procedure was omitted because previous studies indicated that acclimatization alerted the animals to the process and made them wary and difficult to handle, and (c) the observation 1 hour after dosing was omitted because the dosing procedure took 2 hours to complete. None of these changes was thought to have an effect on the study.

Raw Data and Final Report Storage

A copy of the final report, study protocols, raw data, retired ${
m SOPs}$ and an aliquot of the test compound will be retained in the LAIR Archives.

RESULTS

Mortality

Thirty-three (92 %) of the deaths occurred between 4 and 26 hours after dosing. The remaining three animals were found dead on the morning of the second day (between 36 and 47 hours after dosing). During the ALD study, 5 g(base)/kg produced death in all animals within 60 minutes. Table 2 lists the compound related deaths by group and the percent mortality. Appendix D is a tabular presentation of cumulative mortality.

TABLE 2
Compound Related Deaths by Group

GROUP	Dose Level (mg(base)/kg	Compound Related Death/ Number in Group	Percent Mortality
MALE			
1	278	0/9	o
2	360	0/9	0
3	464	2/9	22.2
4	600	5/9	55.5
5	775	9/9	100
6	Vehicle Contro	1 0/5	0
7	Cage Control	0/5	0
FEMALE			
1	278	0/8*	0
2	360	2/8*	25
3	464	5/9	55.5
4	600	4/7*	57.1
5	775	9/9	100
6	Vehicle Contro	1 0/5	0
7	Cage Control	0/5	0

^{*} Reduced numbers in groups were due to one or more misdosed animals which were excluded from statistical analysis and removed from the study.

Lethal Dose Calculations

Lethal dose values were calculated by probit analysis and the equation for the probit regression line was: $Y = -30.1 + 12.8 \log X$ for males and $Y = -15.3 + 7.6 \log X$ for females, where X is the dose and Y the corresponding probit value. Misdosed animals were excluded from statistical analysis and eliminated from the study. Lethal doses calculated from the equation for the probit regression line are presented in Table 3. Figures 1 and 2 graphically present the actual data points and the regression line.

TABLE 3
Calculated Lethal Doses (LD) of Guanidine.HC1

Effect Level	Calculated Dose* (mg(base)/kg)	95% Confidence Limits (mg(base)/kg)
MALES	441.8 + 36.2	(326.3, 497.9)
LD ₁₀	_	•
LD ₅₀	556.5 <u>+</u> 29.7	(492.3, 630.9)
^{LD} 90	701.1 <u>+</u> 58.5	(621.1, 956.0)
FEMALES		
LD 10	321.4 ± 39.3	(209.1, 383.9)
LD ₅₀	474.6 <u>+</u> 35.3	(402.0, 562.7)
LD ₉₀	700.8 + 87.7	(584.8, 1089.9)

^{*} Calculated dose + standard error.

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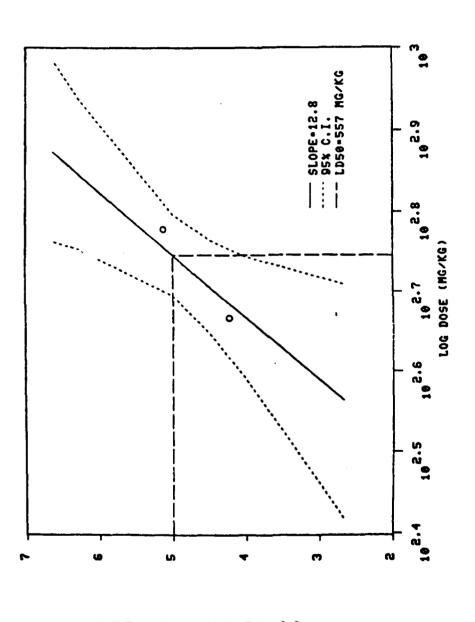


Figure 1. Dose Response Curve, Guanidine-HCl in Male SD Rats

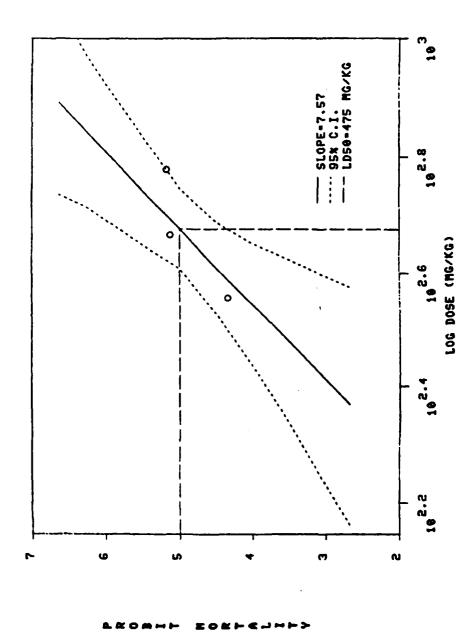


Figure 2. Dose Response Curve, Guanidine-HCl in Female SD Rats

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Clinical Observations

The two most frequently observed categories of clinical signs were central nervous system-neuromuscular (CNS-NM) disturbances (80 of 86 animals dosed) and gastrointestinal (GI) tract symptoms (53 of 86). These clinical signs were recorded at each dose level. Severity, but not duration, exhibited a dose-response relationship. On the initial observation (2 hours after dosing), the only clinical signs noted were occasional hyperactivity or increased irritability. After 4 hours, most animals had developed clinical signs. All symptoms had disappeared 7 days after dosing, except for occasional signs of increased irritability.

GI tract symptoms were present in all dose groups but were more prevalent and severe at the higher doses. Hunched posture, increased salivation with some staining of the muzzle, and diarrhea were the most commonly noted GI symptoms.

CNS-NM symptoms were present in all dose groups. The symptoms appeared to exhibit a more complex dose-response pattern than the GI tract symptoms. Animals that received doses of 464 mg(base)/kg or less exhibited increased startle reflex, hyperactivity, and disorientation. These signs had resolved within one week of dosing. Those animals receiving the two higher dose levels (600 and 775 mg(base)/kg) exhibited an increased startle reflex, hyperactivity (as indicated by random jumping, tremors, and/or twitching), and depressed grasping and righting reflexes within 4 hours of dosing. Most of these animals died within 24 hours; however, one of the four male survivors in the 600 mg/kg group was still listless with depressed righting and grasping reflexes one week after dosing.

The term "disorientation" described a behavior pattern in which the animals appeared dazed and confused about external stimuli. "Disoriented" animals were observed sitting in their cages with expressionless stares and exhibited little or no response to noise, movement of their cages, or handling. Their movements were hesitant and appeared random except upon perceiving a threat which elicited grossly exaggerated escape movements. Repetitive, stereotypical behavior such as a constant side-to-side movement of the head, simulated eating movements/motions, or a disjointed, non-productive scratching motion, was observed in several animals.

Presence of dirty or rough hair coats (48 of 86) and increased respiratory rate or irregular respiratory patterns (36 of 86) were observed in some animals. Tables 4 and 5 contain a summary of clinical observations. Appendix E contains individual animal histories.

Weight gains of survivors were not significantly affected by dosing. Table 6 presents the mean body weights by groups. Appendix F contains individual weight tables.

TABLE 4

Incidence Summary for Clinical Observations in Male Rats Administered Guanidine Hydrochloride

Clinical	Group	 1	2	3	4	2	9	7	
51 % ns	Dose (mg(base)/kg)	278	360	797	009		775 Vehicle Control	Cage Control	
	(u=)	6	6	6	6	6	5	ن	
Respiratory *		7	7	7	2	2			
Gastrointestinal	+	¢	9	4	7	6			
Neuromuscular ‡		9	•	6	6	œ			
Rough Coat		9	9	∞	∞	9	1	2	
Discharge, red nasal and/or oral		9	2	7	9	4	٣	S	
Irritable		5	4	9	œ	æ	3	7	
							1		

* Includes changes in rate, depth and regularity.

† Includes increased salivation, diarrhea, perianal staining and hunched posture.

Includes disorientation, increased in startle reflex, hyperactivity, jumping behavior, tremors/twitching and depression of grasping and righting reflexes.

TABLE 5

Incidence Summary for Clinical Observations in Female Rats Administered Guanidine Hydrochloride

Clinical	Group	1	2	3	4	5	9	7
Signs	Dose (mg(base)/kg)	278	360	797	009	775	Vehicle Control	Cage Control
	(u=)	œ	œ	6	7	6	S	2
Respiratory *		4	2	3	~	7		
Gastrointestinal t		2	٣	7	4	2	1	
Neuromuscular ‡		æ	7	6	7	က		2
Rough Coat		4	2	7	3	-		1
Discharge, red nasal and/or oral		2	7	Ŋ	₩.	9	m	2
Irritable		9	9	2	2	4	c :	7

* Includes changes in rate, depth and regularity.

t Includes increased salivation, diarrhea, perianal staining and nunched posture.

Includes disorientation, increased in startle reflex, hyperactivity, jumping behavior, tremors/twitching and depression of grasping and righting reflexes.

TABLE 6

Mean Body Weights in Grams ± S.E. (n)

Dose mg(base)/kg	Receipt	Dosing Day	Day 7	Day 14	Weight Change*
278 360 464 600 775 Vehicle Control Cage Control	154.5 + 6.54 (9) 163.9 + 3.99 (9) 147.7 + 6.95 (9) 152.4 + 5.92 (9) 151.0 + 5.70 (9) 161.0 + 4.56 (5) 150.2 + 6.81 (5)	225.0 + 5.46 (9) 226.6 + 3.16 (9) 226.6 + 3.16 (9) 219.0 + 5.21 (9) 218.9 + 4.92 (9) 215.6 + 5.79 (9) 225.0 + 2.43 (5) 221.4 + 4.77 (5)	305.0 ± 5.51 (9) 301.8 ± 5.90 (9) 296.7 ± 17.20 (4) 289.3 ± 17.20 (4) 304.8 ± 5.94 (5) 306.4 ± 6.71 (5)	349.7 + 6.07 (9) 340.2 + 10.20 (9) 344.3 + 8.75 (7) 332.3 + 14.53 (4) 347.2 + 6.38 (5) 342.2 + 11.23 (5)	123.9 ± 5.71 (9) 113.7 ± 8.35 (9) 128.0 ± 8.89 (7) 107.3 ± 6.17 (4) 122.2 ± 5.84 (5) 120.8 ± 8.04 (5)
278 360 464 600 775 Vehicle Control Cage Control	136.9 ± 3.36 (9) 137.2 ± 3.56 (9) 138.4 ± 3.58 (9) 138.4 ± 3.27 (9) 138.4 ± 3.27 (5) 146.6 ± 5.03 (5)	168.8 ± 3.42 (9) 164.3 ± 3.41 (9) 166.1 ± 3.99 (9) 170.4 ± 5.25 (9) 171.3 ± 4.00 (9) 164.2 ± 3.77 (5) 172.2 ± 2.97 (5)	211.0 + 4.49 (8) $214.3 + 5.80 (6)$ $218.5 + 6.51 (4)$ $206.0 + 6.81 (3)$ $206.6 + 5.27 (5)$ $216.2 + 3.15 (5)$	228.0 + 4.84 (8) 235.2 + 8.85 (6) 233.8 + 4.11 (4) 222.3 + 12.7 (3) 221.6 + 6.34 (5) 231.0 + 4.51 (5)	61.1 ± 3.48 (8) 69.5 ± 6.37 (6) 56.5 ± 9.92 (4) 59.0 ± 5.51 (3) 57.4 ± 3.89 (5) 58.8 ± 2.97 (5)

*Dosing to termination

Gross Pathological Observations

The mortalities which occurred after dosing appear to have been caused by the test compound. Test-related lesions were found only in the digestive system. No lesions were found in the CNS during gross or light microscopic examination. The veterinary pathologist's report appears in Appendix G.

DISCUSSION

The calculated LD₅₀ and standard error (S.E.) for guanidine hydrochloride was 556.5 ± 29.7 mg(base)/kg in male Sprague-Dawley rats and 474.6 ± 35.3 mg(base)/kg in female Sprague-Dawley rats. These LD₅₀ values are within the slightly toxic and moderately toxic ranges, respectively (4).

Clinical signs indicated guanidine hydrochloride affected both the GI tract and the CNS-NM. Symptoms referable to the GI tract included increased salivation, hunched posture and diarrhea; the last two are indicative of irritation to the lining of the GI tract. Necropsy of animals that died as a result of the test compound confirmed that guanidine hydrochloride produced GI irritation. Marked erythema and edema of the gastric mucosa and submucosa were observed. This irritation appeared confined to the glandular portion of the stomach.

Guanidine hydrochloride is a standard chemical reagent for denaturing protein (5). The marked GI irritation observed at necropsy may be attributed to this action of guanidine hydrochloride to denature protein.

Guanidine hydrochloride also appeared to have an effect on the CNS-NM as indicated by the clinical signs data. Toxic signs included disorientation, increases in the startle reflex, hyperactivity, jumping behavior, presence of tremors/twitching and depression of grasping and righting reflexes. Otsuka and Endo (6) reported that guanidine hydrochloride increased the amplitude of the neuromuscular end-plate potential by increasing the quantity of acetylcholine (ACh) released from the nerve endings by a single nerve impulse. Because of its ability to augment neuromuscular transmissions, guanidine hydrochloride has been used to treat myasthenia gravis (7). More recently, guanidine hydrochloride has been used in the treatment of botulism (8). Since botulism toxin blocks the release of ACh at the neuromuscular junction, the therapeutic effect of guanidine hydrochloride is attributed to its facilitating the release of ACh from remaining efflux sites not blocked by the toxin (8). This proposed mechanism of action is consistent with the listing of guanidine hydrochloride as a striated muscle stimulant in the Merck Index (9) and is also consistent with the clinical signs reported in this study.

CONCLUSION

Guanidine hydrochloride is a "slightly toxic" to "moderately toxic" compound that produce irritant effects on the GI tract and CNS-NM. Calculated LD $_{50}$ \pm S.E. values were 556.5 \pm 29.7 mg(base)/kg in male Sprague-Dawley rats and 474.6 \pm 35.3 mg(base)/kg in female Sprague-Dawley rats.

RECOMMENDATION

Guanidine hydrochloride should undergo additional toxicity testing in accordance with the Toxic Substances Control Act.

REFERENCES

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APPENDICES

CHEMICAL DATA

Chemical Name: Guanidine Hydrochloride

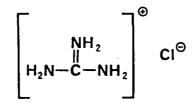
Alternate Chemical Name: Aminomethanamidine hydrochloride,

Carbamamidine hydrochloride, Carbamidine hydrochloride, Aminoformamidine hydrochloride,

Iminourea hydrochloride

Chemical Abstracts Service Registry No.: 50-01-1

Chemical structure:



Molecular formula: CH6ClN3

Molecular weight: 95.5

Physical state: White powder

Melting point: 182-184°C (184-185°C*)

Analytical data/purity: Water content 0.1% by Karl Fischer analysis.*

The material is at least 98% pure and chromatographs

as one spot by thin layer chromatography.†
Elemental analysis. Calculated for CH₆ClN₃
Cl, 37.1. Found: Cl, 36.6.† An IR spectrum was obtained upon receipt of the compound.

IR(KBr): 3400, 2750, 1650, 1535, 1050 (broad) cm⁻¹.

A comparison of this spectrum to the Sadtler standard spectrum confirmed the identity

of the material. ‡

Source: Sigma Chemical Co.

St. Louis, MO

Lot number: 103F-5623

Zygmunt R., Analytical data sheet for guanidine hydrochloride, lot number 103F-5623. Sigma Chemical Co., St. Louis. 16 Feb 84.

Sigma Chemical Company, St. Louis, MO. Becky Goodloe, PhD, personal communication, 5 March 1985.

^{*}Sadtler Research Laboratory, Inc., Sadtler standard spectra, Philadelphia: The Sadtler Research Laboratory, Inc., 1962: Infrared Spectrogram #8676.

STATE RESIDENCE STATES OF TRANSPORT PROPERTY

Stability in vehicle: A preliminary study was conducted to determine the stability of guanidine hydrochloride in the vehicle, sterile water for injection. A solution of guanidine hydrochloride (18.825 ug/ml water) was assayed after preparation and 4 hours later by using the Voges-Proskauer Method (Micklus MJ, Stein IM. The colorimetric determination of mono-and disubstituted guanidines. Anal Biochem 1973; 54: 545-553). This method is specific for unsubstituted and monosubstituted guanidines and yields a colored derivative which is monitored spectrophotometrically. Three samples were analyzed for each time point and the results were as follows:

Absorbance	Absorbance
Value	Value
(lst Assay)	(2nd Assay)
2.190	2.053
2.165	2.190
2.160	2.191
$\overline{\mathbf{x}} = 2.172$	$\bar{x} = 2.145$

The values for the two assays were within 1.5 percent of each other which is within the error for repeated sampling using this test. This indicates that the compound is stable in aqueous solution for at least 4 hours.

ANIMAL DATA

Species: Rattus norvegicus

Strain: Sprague-Dawley

Source: Bantin Kingman

Fremont, CA

Sex: Male and female.

Date of birth: Male: 12 December 1983

Female: 5 December 1983

Method of randomization: Weight bias, stratified animal allocation

(RANDOM Computer Program, SOP OP-ISG-21)

Animals in each group: 9 male and female animals

5 each for control groups

Condition of animals at start of study: Normal

Body weight range at dosing: 150-255 g

Identification procedures: Ear tagging procedure (SOP OP-ARG-1), tag

numbers between 84D00450 to 84D00595 inclusive. Animals numbered 84D00210-84D00214 inclusive were added and used for

ALD dosing.

Pretest conditioning: Quarantine/acclimation 19 January-30 January

1984

Justification: The laboratory rat has proven to be a sensitive and

reliable system for lethal dose determination.

Historical Listing of Study Events

Date	Event
19 Jan 84	Received 73 male and 73 female Sprague-Dawley rats. Rats were checked for physical condition, sexed, weighed, ear-tagged, and individually caged.
20 Jan 84	Four rats (2 male and 2 female) were submitted for necropsy quality control.
20-30 Jan 84	Animals were observed daily.
24,30 Jan 84	Animals weighed.
24,25 Jan 84	Animals were randomized into dose groups.
30 Jan 84	Food removed from the animals at 1600 hours.
25,26,27 Jan 84	ALD animals weighed, dosed, and observed.
31 Jan 84	Animals weighed, dosed, and observed at 2 and 4 hours after dosing.
1-14 Feb 84	All animals were observed daily in a.m. and p.m.
3,7,10 Feb 84	All animals weighed.
13 Feb 84	Food removed from the animals at 1600 hours.
14 Feb 84	All surviving animals were weighed, sacrificed, and submitted for necropsy.

Cumulative Mortality Data (Deaths/Group) (9 Animals Per Group)

		Time After Dosing															
Oose Level ng(base)/kg	н		Days														
ig(base)/kg	2	4	8	1	2	3	4	5	6	7	8	9	10	11	12	12	14
MALES																	
278	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
464	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2
600	0	0	2	3	5	5	5	5	5	5	5	5	5	5	5	5	5
775	0	1	5	9	-	-	-	-	-	-	-	-	-	-	-	-	-
FEMALES																	
278*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
360*	0	ι	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
464	0	ı	2	4	5	5	5	5	5	5	5	5	5	5	5	5	5
600 t	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
775	0	6	7	9	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	ŋ	13	21	33	36	,											36

^{*8} Animals per group

^{•7} Animals per group

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	*6/1.1/3	F 6 / 1 1 / 2		4/11/54	F 1 11 1 1 2	c/19/1/2	**/**/*	21071F4	12/10/0	C/ C 5/ P 2	41.05/84	*6/80/2	2/0 5/ #4	18/6///	** / 1 : / >	1/51/54	1/3//24	37/15/1	1 / 30 / 0	1/67/84

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144	6:37:50	0::4:0	14:15:10	4:50:50	31:64:6	45:25:0	0:31:10	3:41:04	4:00:1	13:67:20				9: 11:50	14:11:14	15:01:54	11:58:33	10:54:42	4:10:20	
41 AL	C/14/A4	4/11/2	6/15/44	11/x</td <td><!--110/2</td--><td>PW/00/2</td><td>44/40/2</td><td>241/0/2</td><td>46/44/2</td><td>c/05/84</td><td>44/57/2</td><td>4/00/A</td><td>4/10/2</td><td>4/60/2</td><td>4/10/2</td><td>1/31/84</td><td>1/31/84</td><td>1/51/84</td><td>1/36/84</td><td></td></td>	110/2</td <td>PW/00/2</td> <td>44/40/2</td> <td>241/0/2</td> <td>46/44/2</td> <td>c/05/84</td> <td>44/57/2</td> <td>4/00/A</td> <td>4/10/2</td> <td>4/60/2</td> <td>4/10/2</td> <td>1/31/84</td> <td>1/31/84</td> <td>1/51/84</td> <td>1/36/84</td> <td></td>	PW/00/2	44/40/2	241/0/2	46/44/2	c/05/84	44/57/2	4/00/A	4/10/2	4/60/2	4/10/2	1/31/84	1/31/84	1/51/84	1/36/84	

ANIMAL IN: BADDUS/S SPECIES: D SEX: FEMALE GRUUP: C. LO:ITHOL BIRTH DATE: 12/US/85 INITIAL REIGHT: 172.0 GHAMS DUARAUTINE 1D: UB4DUOS7S THIS ANIMAL HAS NUT BEFN HFMOVFU FRUM THE EXPERIMENT.

OdSERVATIONS

	OPERAIOR IGRAUSI CLINICAL DOSERVALIUUS	NUPNAL.	NURMAL	NUDMAL	NORMAL	NURWAL	NURMAL	NURSAL	RURMAL	NURMAL.	NUPHAL	NOABAL	NURMAL	SLIGHT HYPERACTIVE, SLIGHT EAUPHTHALMOS	SLIGHT KEU HOSF MATERIAL	SLIGHT IRKIIABLE	MARKEU IRMITABLE	JURAL.	* 10 UBSEMVATIONS RECORDED.	* NO DBUENVATIONS PECUPULU.	* NO UBSERVATIONS RECURDED.
H-1-4	न्त्राज्यका	253.0				246.0			225.0					140.0					140.0	146.0	187.0
	DPENALOR	045150	0.45150	10000357	0.44225	0.42150	0044752	0035743	0045150	0046258	0.055257	0055237	0045150	0045150	0045150	9005400	0.035743	0035743	012120	0035743	0.45150
	127	3:44:0	5:42:00	14:16:30	4:55:36	4:57:52	0:36:50	0:55:40	05:44:0	7:09:1	13:48:30	10:44:54	11:05:00	4:17:53	4:61:54	12:63:44	14:51:74	12:04:50	10:35:50	4: <1: \$4	11:02:04
	NAIE ILTE	48/1,1/2	2/13/84	6/15/84	4/11/84	4/10//2	2/0d/84	. 2/08/84	6/01/84	2/05/84	6/03/84	c/u2/84	2/04/84	4.5/FU/2	2/11/2/34	c/u1/44	1/51/94	1/31/84	1/51/84	1/30/84	1/61/84

	BUARA.ITERE ID: URADUISA!	
1.113 11 34010507 SPECIFS: 3C4: FEW-LE GRUIN: C. U.JKINL	GUARA.IT FRE	
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ו: בבייונ	104.0 GKA	
: 3 564	AF LIGHT:	
SPECIFS	L'ALTIBLE L'ALTINE L	
14440501	12/05/85 HAS RUT HE	
1.1.3 11: 34440507 SPECIF	BITTE DATE: 12/05/85 INTITAL AFTENT: 10%,0 GRAAS FAIS ATTACH MAS WOT METAL AFTENT FOR THE FAPERIMENT.	

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.F.16HT	2.58.0
मताच्याच्या	0045150
	2/14/84 6:53:04 0045150 258.0 NOPARE
PAIR	48/81/2

00/42150 0044725 00447150 00447150 00447150 00447150 00447150 00447150 00447150 00447150 00447150 0047150 0047150 0047150 0047150		14:17:18 004:01:18:11:11:11:11:18:18:18:18:18:18:18:18	0:150 0042150	
6032743 198.0		9:01:00 0042350 265.0 NUBAAL 8:38:00 0042255 NUBAAL 4:38:100 0042150 NUBAAL 4:38:20 0042252 NUBAAL 13:29:20 0042252 NUBAAL 11:05:20 0042252 NUBAAL 11:05:20 0042150 NUBAAL 11:05:20 0042150 NUBAAL 12:25:30 0042150 NUBAAL 12:35:30 0042150 NUBAAL 12:35:30 0042150 NUBAAL 14:35:30 0043743 NUBAAL 10:36:54 0043143 NUBAAL 10:36:54 0043143 NUBAAL	14:17:20 0040337 90874L 4:04:50 0044245 700874L 4:04:20 0042257 70874L 8:38:00 0042257 70874L 4:38:00 0042757 70874L 13:04:24 0042757 70874L 11:05:24 0042757 70874L 11:05:24 0042757 70874L 11:05:24 0042757 705.0 70874L 14:55:24 0042757 705.0 70874L 14:55:24 0042757 705.0 70874L 14:55:25 0042757 705.0 70874L 14:55:25 0042757 705.0 70874L 14:55:25 0042757 705.0 70874L	
0.441 40 145 0	-	4:01:00 0042150 265.0 NUBAAL B:58.00 0042257 NUBAAL B:58.00 0042257 NUBAAL B:58.00 0042257 NUBAAL B:58.20 0042257 NUBAAL B:58.20 005227 NUBAAL B:58.20 005227 NUBAAL B:58.20 005227 NUBAAL B:58.20 005227 NUBAAL B:58.20 005274 NUBAAL B:58.20 005	14:17:20 0040357 90234L 4:34:50 0049255 109:14 4:34:50 0042345 109:04 109:14 4:34:00 0042343 109:04 13:24:24:24 0042357 109:07 13:24:24:24 0042357 109:07 13:24:24:24 0042357 109:07 13:25:24 0042350 109:44 12:25:24	U U U U U U U U U U
		4:01:00 0042350 265.0 NUBAAL 8:38:00 0042255 NUBAAL 8:38:00 0042255 NUBAAL 9:28:28:28:28:28:28:28:28:28:28:28:28:28:	14:17:20 0040337 70234 7	U U U U U U U U U U

itial 10: babuusya specifisi O sexi Female babuki C. c'aitale Ipim Gale: 12/05/As Inilae keishii 1020 kaams Hjakivilie 10: umahunista mis amiyat Mas Kul Retu keidiveb fupa Inf Fapepittem.

BSERVATIONS

																ILMI IMRIIA			COROEU.	CuMufu.	1,47,007
	DEERAICH LERAMSI ELAHERE BUSESYALINGS															KOUSH COAT, SLIGH! 14KI)A			* NO UMSERVATIONS RECURVED.	. TO CHSFAVATIONS PECUPUEU.	. NO UBSERVATIONS PECURULUS
	#378777	104HAL	141. U.S.	140.9AL	71.WISAL	11.76 9AL	P: U2:34 L	103m	40.404	MURIAAL	PURMAL	NUTHAL	いしそはあし	いしいみかんし	SL 1641	SL 15H1	シしゅうまし	4087AL	. 110	3 05.	27
:F16HT	TERVEST	251.0				414.0			214.0					20105					1/0.0	165.0	179.0
	uredalla	0.04.51.50	0.40150	0000337	0044765	0045156	9.146337	1033745	1042156	11044232	0053237	0.53257	0.445150	6045150	0.45150	0044400	0035743	0.35743	0045150	0035743	0.45150
		0:55:10	0:44:30	14:17:50	7: 40:40	4:02:50	7:00:4	4:39:34	35:00:	4:16:24	13:50:04	10:45:54	11:07:20	45:00:5	4:57:02	14:54:20	14:54:56	14:41:30	10:40:54	*0:67:6	11:11:24
		2/14/84	4413/84	12/ca</td <td>2/11/84</td> <td>C/10/84</td> <td>44/00/2</td> <td>24/20/2</td> <td>48/10/2</td> <td>4/07/B4</td> <td>44/51/2</td> <td>44/50/2</td> <td>2/04/84</td> <td>2/03/A4</td> <td>2/07/Fig</td> <td></td> <td>1/51/84</td> <td>. 1/31/R4</td> <td>1/31/84</td> <td>1/30/84</td> <td></td>	2/11/84	C/10/84	44/00/2	24/20/2	48/10/2	4/07/B4	44/51/2	44/50/2	2/04/84	2/03/A4	2/07/Fig		1/51/84	. 1/31/R4	1/31/84	1/30/84	

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A 11-AL 10: SADOUAGO SPECIFO: 9 SEX: SALE GROUP: V. LONTANL	GUARANTINE IN: URANUSAB	
6PUUP:	A. IS	MENI.
SALE	MINIM PAIR: 12/12/AS INITIAL LEIGHT: 203.0 GHAMS	INTO AUTHAL MAS HUT BEEN KEISHYEU FROM THE EXPERTMENT.
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e ija																SL 16HT		PECURI	PECOPL	KECON
"FIGHT UPERAIDH IGHAISI CLIAICAL DUSERNAIIUBA																MARKEU IRMIIABLE, SLIGHT RED HUSE MAIFRIAL		" NU UBSERVATIONS RECORDED,	* NO UBSEAVATIONS RECURDED.	UBSERVATIONS RECOPUED.
78376773	NURAL	NURMAL	NURMAL	NORMAL	104×4L	Jeryot.	しましたつと	NURNAL	NURMAL	NUPHAL	NUSHAL	NUR'AL	NURMAL	NORWAL	NUPA.AL	MARKEU	YUR AL	# ∆U UB	80 OV •	80 07 *
af ight Iskaasi	342.0				314.0			243.0					204.0					4.526	334.0	254.0
กรเรษสลก	0445150	0 4 4 5 5 0	0 0 0 0 3 3 7	0003765	0042150	0,44232	645,500	0042130	0046222	0.055557	0.55557	0045150	0045150	0042130	0035743	0035745	0 133743	0040150	0033745	9012150
1111	4:04:30	1:57:54	14:01:04	4:07:10	0:63:64	0:34:00	05:60:0	80:07:9	40:07:0	13:42:14	10:54:14	10:39:50	9:17:50	05:41:0	4:14:50	13:06:20	10:32:24	10:45:54	0:54:3c	10:00:00
	24/41/2	2/13/Pu	c/12/84	2/11/2	24/01/2	44/50/2	*4/40/7	C/01/84	2/14/2	48/50/2	44/50/2	6/04/84	**/**/>	#K/C0/>	C/01/84	1/31/84	1/51/84	1/51/44	1/50/84	1/67/84

4.[MAL 1D: G#JOVG/A SPECIFS; D SEX; MALE GRUIP: Y. LOISTRIL AIRIM DÄTE: 14/12/RS INITIAL MEIGHT: 2US,U GKAAS NUAKANTINE IN: UM4DVO474 THIS AILMAL HAS NUT BEFX MEHOVEU FRUM THE EXPERIMENT.

SEMVA I LOSS

nflgmt <u>Oceaaioa igwa</u> wsi Elimi <u>cal Oasepyalium</u> s	NURMAL	20862		NURMAL	VU-2MAL	NURAAL	¥ሀዋሐልኒ	NURMAL	104.1AL	NURMAL	RUPHAL	SLIGHT IRRITABLE	30K3AL	NO4.40L	NURWAL	SLIGHT RED HOSE MATERIAL	SUPPORT	. NO UBSFAVATIONS RECURDED.	* NU URSENVATIONS RECURDED.	* NU UBSERVATIONS RECURSES.
nf [GHT Lskamsl	359.0				356.0			315.0					276.0					265.0	262.0	255.4
DEEsAlus	0.45150	0045150	0000357	0.44265	0043130	0146252	0435745	0045150	0042232	0055257	0.53257	0045150	0442150	0.42130	0033743	0035743	0035744	0.42150	0035743	0.403130
1135	9:16:44	9:00:9	14:03:40	4:11:19	6:63:10	0:37:00	0:13:44	8:15:14	9: < 9: 50	13:<3:06	10:55:30	10:43:30	6:22:14	2:35:44	4:62:14	15:12:10	10:38:54	10:45:20	8:44:70	10:15:50
NAIE	44/13/84	9713/94	e/15/84	2/11/94	e/10/84	44/60/2	46/40/2	6/01/84	2/06/A4	4815012	4/57/2	44/80/2	2/03/34	4/05/84	2/01/A4	1/51/84	1/51/84	1/31/84	1/50/84	1/27/84

A LINAL 17: CAUNOATS SPECIFS: 9 SEX: AALF GRUNP: V. CONTROL BIRTH HATE: 16/12/85 INITIAL HELSHT: 200,0 GAAYS THIS ANIMAL HAS BUI REEN HENOVED FROM INF EXPERIACIT.

U.SERVATIUNS

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																IRHIIABLE				
OPERALOR IGNAMES LLISTABLOASESTABLUM	NURSAL	NURMIL	Nothinal	NURWAL	NukiiAL	TURSAL.	VUR HAC	NURAAL	NURMAL	JARGON	1104.44	14540.1	NURWAL	744.	JARSO1.	MUDEPATE KOUGH COAT, MUDERATE IRRITABLE	ህ ህ ህ	* NO URSERVATIONS RECURDED.	* NO UNDERVATIONS RECURDED.	. NO UBDERVATIONS RECURDED.
 16:43:131	325.0				307.0			293.0					201.4					263.0	751.0	0.056
101 EX 720	0042150	1145150	0000357	5764400	0.45150	9046239	6035743	0045150	6665400	0.55257	1055500	021,450	0245150	9045150	0033745	(1035745	00.52743	0045150	0035743	0.145150
-112-	9117120	0:00:44	14:03:50	4:11:40	3:44:50	6:57:10	80:77:0	0:15:54	8:67:14	15:23:10	10:55:40	10:45:40	0:<5:32	0:57:00	7:65:40	13:14:04	14:59:20	10:62:01	9:44:50	14:15:10
345	2/14/2	+#151/2	##/c1/2	4/11/2	FK/01/2	マボハケンハン	447477	44/67/2	48/40/2	2105/A4	44/50/2	24/20/2	4/63/34	46/60/2	+4/10/2	1/31/44	1/31/84	1/31/84	1/50/84	1/27/84

A.J.AL ID: ABUGUASS SPECIES: D SEX: MALE GRUUM: V. CONTROL 914T4 GATE: 12/12/83 INITIAL NEIGHT: 211.0 GAAMS 7mls animal mas not heen memoved from the experiment.

OUSERVA FTUIS

eqr								ነሁጽለልኒ	KESPIRATION RAIE, SLIGHT EXUPATOR MUS						NTERIAL			RtCURUfu.	RECURDED.	PECUNUFu.
AFIGHT Deeralod 15maası Celdisae Orservalluda	۸L	٠ د	, F	1	, F	<u>.</u>	Ą.	Ar.	HI INCREASED A	A.L	1	Ŧ	4		HT REU MOSE MATERIAL	Į,	ب	* MU USSEAVATIONS RECURDED.	UBSEAVATIONS	UBSEAVATIONS
CLIME	NUPAAL	リタジャント	NURMA	NORKAL	NURMAL	1.UPHAL	2083E	10.0°	SL 16	NUPMAL	プタボボンス	NURSAL	NORMAL	RURBAL	SLIGHT	NURMAL	NURMAL		2 *	*
,519HT 15184322	354.0				357.0			3<0.0					265.0					255.0	0.515	241.0
	6045150	0.42150	0000337	044925	0045130	0.3422.52	0.03.574.5	0,14,31,50	0,44232	0055237	0.55557	0042150	0042150	0042150	0069405	0035743	0033743	0042150	0035743	0045150
1371	5:41:20	24:60:8	1.1:06:02	45:91:4	0:55:10	0:54:10	0:16:5	31:61:6	0:31:44	13:23:55	10:35:33	10:44:58	0:30:12	70:00:4	y: 59:20	15:41:20	11:05:14	10:45:48	2:49:40	10:41:08
- 194TE	44/81/2	4/13/64	##/c1/2	2/11/8~	**/01/2	34/00/2	74/47/2	44/67/2	6/01/34	48/5012	44/50/2	44/80/2	2/03/84	E/05/84	style="background-color: blue;" style="backgr</th <th>1/31/84</th> <th>1/31/14</th> <th>. 1/5//84</th> <th>1/30/84</th> <th>1/67/94</th>	1/31/84	1/31/14	. 1/5//84	1/30/84	1/67/94

	BUALANTINE IN: JAMBURGO	•
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the Boult	S. 47.5 0.	PESTANI
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AFIGH ABMASS CLIMENT OSSERVALIUMS																		SENVATIONS	* MO UMSFAVATIONS PECURUED.	L'AUSTINA PROFESTATIONS PRESENT
1611112	0.4	1	1404N	144.4UF	MURNAL	10.4.1	MINANA.	NUSAA	10.4.4.	404 40V	NO. 4.4.	30 2 4 B	7.50%	10331	1404 404	14.501	יוטא יואר.	N.O. O.A.	* 110 04	A11. 1.11.
** 1501 1684-151	3				361.0			307.0					264.0					214.0	250.0	265.0
		10107	1,011,0357	じっなみひとう	11,43131	924250	00 43743	0043136	0.146232	15.55.00	1545 - 00	0.45159	0,45150	6242150	さいた ケロいた	2442745	9035744	0040150	10.53745	0045150
11.	78 : 7: 7 : 6	0	1.1.4.46	05:41:4	11,351.04	? F .: = + 1: 0	75:47:0	3164114	34:46:0	11:41:50	1.137: 45	10114170	5:35:50	2:04:00	11:35:34	13:62:30	11:10:36	10:69:46	4:56:00	10:64:54
1 4 1	72/9///	 * / / / /	フェノクコノン	F/11/2	×=/=1/2	·	*****	/ (1/2	75/41/2	アナハダウンド	341.77	**/**/*	44/10/J	FH/2017	c/01/4	1/31/24	1/21/14	1/51/64	1/5(-/#4	1/57/24

A JINAL 17: BAUDUSSO SPECIES: U SEX: FEMALE GRUIP: V. LUHTAUL Hibb pate: 12/u5/8s [Hitial meight: 15a.0 Gabas Quarantine io: wbuduosso This atimal has but been removed from the experiment.

OASERVATIONS

SCALLANGA AGRESTEL LELIAGE - DOSESEMENTO AGLESTE	447500	NURTH	NOR 3AL	NUGABL	NO PARE	NC3441	RUN-14	AUD-AL	NUSHAL	ZUKA P.	14:508	NURMEL	NCR.18	NURSE	たいそっかし	SLIGHT REU WOSE MATERIAL	NUP 44L	. 23 UNDERVATIONS RECURDED.	* NU UBSEAVATIONS MECUADED.	* 40 UBSERVATIONS RECURDED.
af ight Iskansi	234.0				218.0			211.0					146.0					10.4.6	107.0	1/1.0
GELLALOR	0.45150	0045150	0.000357	0144225	0 1 5 7 0 0	0046232	0035743	0045150	0046752	0053257	0055257	0.45150	0 0 4 5 1 5 0	045150	0069406	0035743	0035743	0.005150	0 1 3 2 7 4 3	0045150
-CaleIAU-	6:55:24	92:51:0	14:14:44	7:45:44	6:46:20	3:30:36	3:41:70	8:38:00	6:36:43	13:45:54	10:41:52	10:57:04	20:65:0	7:19:20	14:05:14	13:00:20	11:51:54	10:52:44	45:00:5	10143100
Lale	6/11/34	13/84</td <td>c/12/A4</td> <td>c/11/84</td> <td>c/10/84</td> <td>2/00/84</td> <td>4. LY L. P. A.</td> <td>4/01/2</td> <td>2/04/B4</td> <td>e/u5/##</td> <td>4K/50/2</td> <td>2/24/34</td> <td>2/43/84</td> <td>48/65/2</td> <td>6/11/2</td> <td>1/31/74</td> <td>. 1/51/84</td> <td>1/31/34</td> <td>1/30/A4</td> <td>1/67/84</td>	c/12/A4	c/11/84	c/10/84	2/00/84	4. LY L. P. A.	4/01/2	2/04/B4	e/u5/##	4K/50/2	2/24/34	2/43/84	48/65/2	6/11/2	1/31/74	. 1/51/84	1/31/34	1/30/A4	1/67/84

A.I MAL 17: MA CONTACT SUPPORTED TO THE PROMISE SPOTTED TO CONTACT TO THE TOTAL MEMBERS TO STANKATIVE TOT WHADUDS AS TO SELECT MANAGEMENT OF THE PROMISE TO SELECT MANAGEMENT OF THE PROMISE MEMBERS AS TO ME MEMBERS AND THE PROMISE MANAGEMENT.

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		NUMAL	1400cm	NUR 14L	NUAHAL	TORMAL	11.07 M.A.L.	71 KAON	NORMAL	NURSAL	NUMAR	NUKAAL	468 4AL	NUTHAL	NORTH	SELGHT KED MOSF STATT	NU2,44L	ጎ ስታ። ት ር	* MU UBSERVATIONS PECUNUEU.	. NO UHUERVATIONS RECUPUEU.	* NU UBSERVATIONS RECURVED.
Tark 1 %	151 257	701.0				201.0			1 +4.0					178.0					1,25.1	175.0	104.0
	5-1-0-1	0 6 1 5 0 0	0045150	10001537	らるかでもつい	001500	0046232	0035743	0045150	0042232	0.55227	0053237	0443150	0045150	0045150	むっちょうつり	fiv 3.5744	6052745	11,431311	11055743	1) - 4 3 1 5 1)
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		C/14/H-	2/13/Pu	21121A4	6/11/34	F#/01/2	46/30/2	オオノオコノン	2107184	48/40/2	C/05/84	6/05/84	2/04/94	c/03/P4	2107184	c/u1/84	1/31/44	1/51/84	1/31/84	1/50/8~	1/27/84

A.1746 ID: 64JOUSOZ SPECIFS: O SEX: FL'ALE GRUNY: V. CONTMOL 9121M DATL: 12/05/83 19171AL WEIGHT: 105.0 GHAJS DOAMANTINE 10: WB4DUDS65 TAIS AYIMAL P45 30T PCFW MEIOVEU FROM THE EXPERIMENI.

USERVALIUUS

			DE LGHT	
DAIL	-127T	00EX320	Lekabl	OPEKALOK 16MAUSI CLIMICAL DASERYALIUNA
C/14/84	35:41:0	0042150	214.0	SLIGH, DIANHEA
F/11/84	0:<1:00	0442150		NUPMAL
4/15/84	14:14:10	0.960357		NUPMAL
c/11/84	7:53:34	6044645		NURMAL
2/10/A4	0:25:76	0445150	201.0	IJURNAL
BE/60/2	0:55:54	0044232		NURBAL
	4:34:24	0035743		NUPRAL
4/11/84	30:5:0	0045150	0. H.	1104AR
2/64/B4	D::45:7	くれんちゅつ0		SLIGHT VOCALIZITOM
2/05/84	13:44:10	0055537		NURBAL
	10:45:54	0055527		TOUR WAL
44/84/7	11:01:50	0 4 4 5 1 5 0		NORTH I
4/13/2	4:12:14	001500	168.0	SLIGHT INCREASFU STARILE REFLEX
4/05/94	4:45:4	0042150		NURMAL
2/41/84	14:17:44	9777970		NURAL
1/51/84	14:50:20	0035743		MARAFU IRATIABLE, SLIGHT REU 1408E STATE
1/51/84	11:55:54	0033743		JAKGON.
1/31/84	10:35:40	0.45150	162.0	. NO CHUERVATIONS RECURUED.
1/50/14	4:17:30	0033743	163.0	* NO DROEMVATIONS ALCOHUED.
1/61/84	10:56:58	0045150	177.0	* No CHUERVATIONS RECURCES.

	D: 484060576	
V. LONTHUL	DUALA,TINE ID: WB4D00576	
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Fr Jalk	4 U 1. A A	FAPLPAME
Se X:	16HT: 1	BUM THE
PEC1FS: A	INITIAL NE	* MEMOVED !
4000516	12/05/85	AS NUT BEE!
A . 1 ca. 10: 54000576 SPECIFS: O SEX: FEMALE GOUDS V. CONTROL	SIDIM DATE: 12/05/85 INITIAL NEIGHT: 104.0 64415	THIS ATTIMAL MAS NUT BEEN MEMITED FROM THE FAPERACHI.

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* NO UPSERVATIONS RECURVED.
UPSERVATIONS UPSERVATIONS
2 2
145.0
0035743
11:04:34
1/50/84 1/c7/84

A.INAL ID: OACOUSO3 SPECIES: O SEX: FEMALE UPUNP: V. CONTROL Biqim pair: 12/05/83 initial Neight: 1/2.0 grams quarautine 10: Wb4Du058s Inis animal mas nut been removed from the experimeni.

USSERVATIONS

AFLANIOM IGHAMSI ULIMICAL BRSERVALIUUIS OPEJAIOM IGHAMSI ULIMICAL BRSERVALIUUIS	238.U NURHAL		NUGRAL	NOBAL.	230.0 NURHAL		NURHAL	224.0 NURRAL	NUCHAL	NUGAAL	NO REAL	しゅうかい	ጋ መው ነው		Negati	Z	5.0 + 10 DBSERVATIONS RECURDED.	* NU UBSERVATIONS	141.0 . NU UBSEAVATIONS RECURDED.	-		
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	127	*1:40:0	1:56:30	14:00:10	41:5:14	25:41:0	0:67:44	0:01:00	01:50:0	n:14:54	15:41:40	10:50:14	10:57:40	01:00:0	0:35:40	21:4:0:4	12:35:20	10:44:10	05:00:0	0:35:00	10:01:54
		/*1/2	FK/11/2	7/17/2	2/11/9	7 1 1 1 B 4	76/c3/2	*#//>	C/ U7/ B4	オペノじコノン	1105/64	ナメノケンノン	2104184	c/v3/84	P#/20/7	28/10/2	1/51/94	1/51/84	1/31/84	1/30/84	1/67/84

A.J.A. 17. BAUDUASH SPECIFO: O SEX: MALF BROUM: 278 MS/KG ALVIN SATE: 16/18/43 INITIAL BEIGHT: 214.0 GRANS GUARANITHE ID: WB4DVO450 Tails, solasi has mit April, afmonfolfgith THE FIRERIENT.

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6/11/14	10:11:4	1032745		SLIGHT INCREASED STABILE REFLEX
1/31/44	14:54:51	0.35.27.15		SEIGHT ADDGR COAT, SEIGHT ARD HADAE DISCHARGE, MODERAIF DIANNEA
1/51/64	1.1: 34:60	1145743		NUR41L
1/31/34	36:44:50	0010406	7.44.	* ID COURTANTION PERCENCE.
1/30/14	5:44:5	9052745	247.4	* NO USSENVALIONS REFURDED.
11,07184	10:10:54	0045150	241.0	* NO UBSEMVATIONS PECUADED.

A.1.1. 10: BADUDATZ SPECIES: D SLX: MALE BRUDY: 218 MB/MG BIRIM DATE: 12/12/PS INITIAL WEIGHT: 198.0 GAAS THIS ANIMAL HAS NUT REE! WEHDVED FRUM THE EXPLAIMENT.

OBSERVATIONS

															II URUMA PERTANAL STAIN	ISCHAPUE, SLIGHT INCREASE					
OPERSION IGNABLE CLIMICAL DASERVALIUMA	NURMAL	NORMAL	NUMBAL	NURHAL	NU9,14L	NURHAL	NURWIL	NURSE	NU-SMAL	HUMAAA	NURMAL	RURMAL	NURTAL	NURSEL	SLIGHT PREMURS, SELENT TRRITARES, SEIGH	MUDERATE 1841+AULE, STIGHT 4KD 485AL FISCHAPGE, SLIGHT INCREASE	NURHAL	A NO GREENWATIONS RECORDED.	* NO UBSEAVATIONS RECOMMES.	* NU UBSF TVATIONS RECORDED.	
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2415	6/14/84	6/13/84	4/12/84	44/11/2	5/11/24	*#/07/7	4/40/2	44/60/2	4/40/2	48/50/2	4/02/84	2/03/84	2/03/84	6/07/A4	2/01/84	1/51/44	1/51/84	1/51/84	1/30/84	1/27/84	

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Asinal in: Baddusia Specifo: N Sex: Wale GROWP: 279 My/rg 91212 paic: 1212/88 initial Weisht: 210.0 gaams nuarahilig id: Ubaddusia 1715 almal mas nut meem memoved frum tme experiaent.

GUSERVA FIUND

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98:07:07:11 74/15/1 98:07:07:11 74/15/1 98:07:07:07:07:07:07:07:07:07:07:07:07:07:	6032743	fv 3,2743	 0043150			C1.0000	8032743		9077906	0042150	021500	0045150	0055257	0055257	0.42232	0615000	0035743	0.442.52	045150	0044245	0000357	0.45150	0045150	NOTEN TOR	
	00:55:0	9:54:00	 4:50:56		11:20:35	77.7.61	14:17:50		97:47:11	01:57:5	3:43:00	10:52:54	10:07:04	13:45:40	8:44:06	0:11:50	25:42:8	25:5+:6	9:41:00	4: E 3: 44	14:14:10	80:60:9	8:30:08		
•	1/50/94	1/50/94	 1/51/44		1/11/8"	7111000	1/41/4"		2/01/44	オストルコーソ	 PH /2 7/2	サケノカコノリ	4/52/2	e/ v S / 84	4105184	4816013	C/V2/B4	PH / CO/2	c/10/P4	c/11/34	2/12/84	2/13/AL	2/14/A4	"ATE	

4.1-1. D. JOHOFOELF SPECIFORD SEXE WALF GROWN PAYAITME ID: GRADUDOLY THE DATA TIME ID: GRADUDOLY THE STRUKE AND THE EXPERIMENT.

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																SEIGHT HUNGAEU POSIUPE, SEIGHT IMPLIAMES, SEIGHT MOUGH LOAT, MA		SEIGHT HYPERACTIVE, MUERATF NEPKESSER GRASPING MEFLEX	•	•	
	147702	SLISHI ROUGH LOAT	NU4-4AL	Nodia	1) CRAMP	A CHAIN	NUF 1AL	NOTE OF	NURWAL	しゅうないと	NUTSAL	NUPAAL	NURRAL	NORMAL	Mr.O.1M	SEIGHT HUNCHEU POSTUPE, SEL	PEZIAWAL MAIFKIAL	SLIGHT HYPERACTIVE, HOVERAL	* NU UMSERVATIONS RECORDED.	* YO UGSEAVATIONS PECUAJEU.	* No UHSEAVATIONS RECURER.
्रहास्प्रहा इत्रक्षाक्षर	313.0				3.17.0			314.0					0.69%						240.0	251.0	0.876
RUIAcara	0045150	6,43150	63.50	276476	6043150	56.42473	0032743	021520	6,446222	0.5527	0.55537	6.04.5150	001000	0.45150	6353436	6.33745		10.43744	1151511	0.33743	05 (50.0)
-177	37:16:0	20:11:0	14:13:40	4:04:40	07:27:0	40:14:04	3:45:30	41 144 16	0.500:0	13:45:10	10:40:26	16:54:10	8:51:54	9:13:54	11:59:35	15:00:40		11:23:20 0033747	6:00:0	A:-1:4	11/27/F4 14:34:10 11:43150
	** / 1 / 2	74/11/2	C/17/64	2/11/84	F. 11,112	+4/61/3	2/17/34	44/67/3	コロ / リニノジ	21.51×4	48/50/2	48/50/2	2/03/A4	ヤロノベニノブ	c/11/24	1/51/04		1/51/84	24/10/1	74/35/1	1127/24

1.15.4 ID: SEVESS SPECIFOI DECKI FEMBLE GRUIPT 278 MOVAG Mirit 12765795 IVIIIAL GEIGHT 179,0 GRAGS NOARADIIVE IN OMMOUDZZD METOVAL DATE: 2702784 IIAF: QIIMIZZ MLASON: PHYSICAL MANGHIVALITY

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77777	327
.F16HT 15a4952	14.0
7077272A	0645136
1.1	705/84 4114126 731/84 0131140 731/84 4104194 727/84 10159110
4764	157/KL 151/KL 152/KL

A.I.AL ID: OBDOUSE9 SPECIES: D. SEX: FEMALE BROUM: 218 MJANG Himim Date: 12/US/83 Initial Neight: 157.0 Grans Tais animal mas hot meen memoufu from the Expreiment.

OdSERVATIUND

			100	
13 ± 7 E	12 L	UZESALCK	15:4:151	<u>UPERANCE LEGARISE LELMAGAL DISERVALIFIE</u>
**/#1/>	0:34:44	0045150	265.0	NOPHAL.
FE/21/2	9:14:54	051500		LULENAL
41/21/3	14:14:34	0000357		NUMBER
2/11/84	4:4A:22	0044245		NOSTAR
44/10/4	95:54:0	0.45130	0.215	20834
** 160/3	3:30:10	0.46.22		NURBAL
48/80/A	45:12:0	0.03.2743		TANKS ON THE PROPERTY OF THE P
44/10/2	6:57:32	0.14.51.50	209.0	14:320×
77/47/2	91:36:00	60.42.52		SLIGHT INCREASED RESPIRATION AATE
*4/50/2	13:65:43	1053237		マード アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・ア
78/50/V	14:41:46	9052637		TAPECIN .
24/20/2	10:35:50	0042130		NUSSAL
c/ L3/ 34	0:23:14	0.45150	168.0	NUPABL
*6/20/2	1:17:52	1040130		NJEAAL
+4/11/2	16:04:36	2084400		SEIGHI 1841+Able
1/31/04	15:23:50	0035743		MUDERATE WOUGH LUAT, SLIGHT 198 I TABLE, SLIGHT RED HASAL DISCHARGE, SLIGHT
				INCHEASED SALIVATION
1/51/8-	11:30:56	9087909		SLIGHT LLEAM MOUTH ABSERIAL, SLIGHS DEPRESSED GRASFING REFLEX
1/51/84	6:54:30	0.42150	160.0	* NO CHUEXVATIONS RECERCE.
1/30/84	7:00:40:4	6033743	105.0	* NO UBSERVATIONS RECURSE.
1/67/34	10:42:34	0045150	173.0	* NO UBSEAVATIONS REFURDED.

21 K 16/25	1034A.1.1.1. 141 464000033	
66 UDF		. IN I
1 C 7 A . E	CT. O G. A.	TABLATHE
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P=(165; n	4" TVTLT"	LAE BIVEL
a 565000a	1 64750121	TAS NUT PER
LIVAL 101 HADDUSSS SPECIFOR ONE PERMIC BENING STR WALL	11414 DATE: 16/05/85 PATTAL OF IGHT - 104,0 GAAAS	INTO WILLIAL HAS NOT PERIN ARTHINED FROM THE FAULUTICAL.

COSERVATIONS

317TT-												.1 1 V E	INCREASED STAPILE AFFLEX		ske	SLIGHT ANDER COMI, PAPARE IPRIIABLE	st.	* TO CHOFINATIONS PECCHIFU.	* 3U UBVERVATIONS PRINKUEU.	* My WISSENVATIFIES MECUMULAS	
striiskossoomasteina restaat sojaajan	141.501	7:04 4AL	*10 6 4 A L	N. C	1.0 47.4	140-11	P.C	4.50.	JA > O.	4	76.7.4	SLISHI NYPERALITYE	Selbhi INCREA	1,00.180	CLIUMI 18431ABLE	SLIGHT AUUGH	SLIGHT 1PRITABLE	THURSTRUME	* 3U UBSERVAT	* NU USSERVAT	
 7557 051	324.0				2011.11			210.0					144.0					162.0	185.0	1/1.0	
25162324	0615400	0.442150	1000337	2254460	4445150	26.2300	0033743	001500	6462400	いしろうろうり	1055300	0615000	0045150	0.45150	0047405	0035743	0035743	0 4 4 5 1 5 4	6035743	0045150	
	54354	0:16:10	14:14:50	7:24:10	3:47:10	45:45:0	0 7 U . C	44:00:0	46:10:0	13:24:40	1.:42:00	1.1:37:08	75:50:0	4:C0:40	12:05:54	13:64:50	11:32:50	0:35:44	コオ・レコ・ケ	10:44:01	
TE	34/71/2	5/14/2	2/13/54	2/11/84	**/:1/>	**/67/3	41111	21/01/2	24/40/2	~ 4/50/2	e+/+1/2	76/70/7	**/10/2	44/60/2	4/11/A4	1/51/84	1/31/84	1/3//84	1/50/84	1/67/84	

AJING IN: OWNUSST SPECIES: N SEX: FEWALE WOUNT: 218 NOTRG MINIM DATE: 12/USANS IZITIAL NEIGHT: 1/2,0 GNANS TAIS WILMAL HAS NUT BEEN HEHOVED FROM THE EAPCALMEN).

SERVATIONS

	111	ULEGALUK	TENAUST	הרבתסורה ופאסמפן יריין ער מי של מאסין הרבתסורה הרבתסורה המשפחה הרבתסורה הרבתסורה הרבתסורה הרבתסורה הרבתסורה הר
2/14/84	b: 36:34	0045150	245.0	19.2.4.
e/13/84	3:17:02	0 0 4 2 1 5 0		14 ± 0 C C C
2/12/84	14:15:02	0.000357		746.80.00
c/11/94	7:67:67	5726000		14F.COM
C/10/F4	50:44:0	0 4 4 5 1 5 0	236.0	NUGAAL
48/60/2	0:31:40	0.42232		ראיני מירט. מירט אורי מירט
. 2/ 11 R / A 14	5:30:36	6132745		なるない。
4/11/2	4:54:50	0.45150	2ch.0	30 3 4 L
4/02/24	07:40:0	6262400		10000
4/CO/2	13:47:16	1658210		20.2.4.P.L
C/05/A4	10:42:23	-		1:12
45/20/2	10:59:00			SLIGHT MYPEAACTIVE, 30. Exafe IARITARLE
4/01/2	40:10:4	0015000	215.0	SCIET INCRESSE ANDPERATION RAIN
2/07/34	4:40:10	0445150		THE STREET
4/11/34	12:04:30	むっちゃくつの		SEIGHT IPATIBALE, SELEGAT RED NOSE STAIL
1/31/24	13:44:34	9004900		SEIBM! KOURH COAT, MARAEU EMILLAULE, MLIGHT PED NASAL DISCHARGE, SLIGHT
				I.C.EASED RESTINATION MATE
1/31/84	11:35:24	0035743		SLIGHI NYVENACTIVE
1/31/94			178.0	* WO UBSERVATIONS RECORDED.
1/50/44		0035743	204.0	+ NO URVERVATIONS PECCACED.
3/67/84	10:45:20	0.45150	168.0	. NO DASEAVATIONS RECURVED.

A (TATE IN: ADJUDADE SPECIFOI O SEXI PENALE MANNET PIB MUKANI 1121M PAIE: 16/05/AS 19111AL NEIGHTI 1940 GNAMS GOAMANITEE IN: GHANUUSDA THIS ATTAL MAS RUI REEJ MENNYFU POUT INF FAPERITIENI.

GUSERVATTORS

DREselod icaisi eliliceliussemellus	, p	IAL	 	ואר	, A.C.	اله ر. ا	17 C	, b.	IAL.		וער	18 L	ا م ا	i Ai	NUNEGATE 19HIIADI.E	AL.	SLIGHT HYPERBUTIVE	* NO UPSERVATIONS REFURNÉD.	URSERVATIONS PECUNUED.	URDERVATIONS PECCODE.
77	1. L. S. S. A. L.	146.801	JAN. GO.	PIUD MAL	*:U4%AL	3.03.46	144.61	14:40%	30	13.0 PM R.	いしんふんし	14.500	10×.18	303.4AL	100	NUPAL	St. Iu	*	3	•
120851	268.0				217.0			364.0					107.4					134.0	0.471	100.0
POT OF AAO	06154011	051500	1000357	いっちょうとう	4616900	55.2200	1035743	0045150	かってかるかっ	1656500	1053237	0.04.51.56	6045150	0.42130	0.05+400	0.33745	0.01.57.43	0092150	0635745	0 4 2 1 2 0
-1221	0:34:50	07:61:0	14:15:54	4:50:50	21:11:12	0:36:00	0:52:00	40:24:64	44:10:4	13:67:30	10:44:06	11:00:11	4:46:15	7:42:50	14:12:50	15:67:44	11:96:11	3:34:40	4:11:20	10:40:01
	6/10/7A	A 1 8 1 44	=/12/A4	P#/11/2	F # / 11 7 / 7	5/00/2	71/1/2	2,01/44	44/44/2	4/15/17	44/50/2	31/20/2	*#/* 0/2	44/ch/2	オガノ1の/2	1/51/44	1/51/84	1/51/44	1/30/84	1/67/84

AJIJAL 10: 3403VŠDO SPECIES: D SEX: FENALE SPUYF: 278 MGZAG Hirim Date: 1270578; IVITIAL WEIGHT: 176.0 GNANS This animal has not veri memoveu from the Eaplathent.

SERVALIU45

									REFLFX			KEFLEX			KFFLEX, SLIGH! IMMIIADLE	.1	SLIGHT AFD NASAL UISCHANGE, SLIGHT DEPAESSED GRASPING REFLEX	• 1	•	•	
UPERALUK LEKINIS LLINILAL DRIKRYALLUM	HURMAL	14×00×	NORMAL.	40-2MAL	408mbl	TO AMAL	P.O.P. JAL	76.75	SLIGHT OFPRESSED KICHIIAS	TARKON TARKON	ነብማሳል	SLTUHI INCREASED STARILE K	HURMAL	409MAL	SLIGH! INCREASED STARILE KEPLCX, SLIGH! IMPIIADLC	SLIGHT RED NASAL DISCHARGE	SLIGHT KFD NASAL UISCHANGE	* NU UBSERVATIONS RECUMUEU.	* NO UBSERVATIONS RECOMPED.	* NO UBSERVATIONS RECURDED.	
 • रहत्ररक्षा	243.0				754.0			251.0					0.672					117.11	148.0	194.0	
मतारणद्रात	051500	0 44 51 50	10001	3266000	0045150	0046252	0035743	0042150	0.042252	0.53257	0.53257	0615400	0045150	0045150	0069406	0035743	0035745	0443130	0032743	0.42150	
122	20:12:0	8:50:18	14:15:50	7:52:70	5:53:65	4:24:52	9:33:56	8:43:54	4:05:12	13:27:50	10:43:20	11:01:04	41:00:5	4:54:30	14:15:00	15:64:32	11:48:12	9:23:54	7:15:44	10:54:16	
2416	C/14/A+	2/13/84	c/12/44	2/11/84	6/10/A4	46/60/2	44/40/2	46/10/2	2/06/A4	6/05/44	4/02/84	2/04/84	49/20/2	41 UP 1 94	2/01/R4	1/31/84	1/51/84	1/51/34	1/30/34	1/27/84	

AJT GET INS BARDINGSOS OPERIFOS IN SERVICE BRIGHT: PAR NOVAG AJENTA (RATES LEVOLSAS EVITAL OFINATS TOLEM GRANS INTO ARINAL HAS AUT 19FA RESOURD FROM THE ERPERIMENT.

1,2SEMVAIlu's

		\$10 Pull Pull Pull Pull Pull Pull Pull Pul	78245014	በሁለካል _ት	J1+6081	14.14.14.	JAL GOS	!ink and	コウンオラマ	18. 4.4.4.D	SELSHI JERRESSFU GRASHIIS REFLEX	SETOHI CEPHISOFU WANSPING MEFLEX	SEIDM DEFRESSEU OKASPIGG PEFLFA	Stid" - Exubnitatinus	10.4 × 4 × 1	۵، ۱۰. ۱۰. ۱۰. ۱۰. ۱۰. ۱۰. ۱۰. ۱۰. ۱۰. ۱۰.	MONEYNTE AHIGA LOAT, MAAREN 1968EASEN STARILE AFFLEK, S	THE PERSONANCE PROPERTY OF THE SEASED AND PRAINTING HAVE	SELONE HYPERACTIVE SELENT DEPRESSED GRASPING AFFLEX	* "I UMOFAVATIONS PERURUEU.	A LA CHOFAVATIONS RECORDING	. M. O'ISFAVATINIS PECUMUEU.	
-	111 TEE		٠ ٧	à	U		2	2:		3.	J.S.	J.	51		J.	-	2	77.	7	107.11	* 2.67		
1.1	7757	211.0				2.42			=. ****					184.0						101	7	117	
	AUL 122 124	11,45150	0.43150	0000537	5724010	0.43150	9463400	5976500	1.442120	0,46732	1455200	1656-71	045150	0040100	0.45156	4064406	11.33743		1433743	0.42150	11,137,43	0043150	
		0555530	0:4:50	14:11:20	4:34:70	7770717	0:34:53	A: 57:40	4:54:1	04:11:4	13:49:10	70:00:01	11:04:50	7:14716	4:54:12	16:31:36	13:40:50		14:12:14	4:00:40	4:c3:50	11:07:34	
		4/10//2	4/11/2	C/17/84	26/17/2	44/61/2	44/60/2	70/07/2	11/11/2	4414012	4/12/N4	** / 5.2 / 3	410012	c/03/P4	12/27/2	4/01/44	1/31/84		1/31/44	1/51/84	1/30/44	1/21/84	

A.1AL 1D: OGDOVSS2 SPECIES: 1) SEX: FEMALE GROUP: 218 MG/AG High Date: 1c/obyrs Initial Height: 103.0 Grans Ougharine 1D: UH4DU0592 Tats arigal has not refu mfalbyfu from The Experiment.
A.1AL 10: 04000532 SPECIES: 1) SEX: FEMALE GROUP: High Date: 12/05/As initial metrit: 103.0 Gabas Tats amigal has not refu measoff from the Experiment.
A.1.al 10: 04000542 SPECIES: 1) SEX: FEMALE High Date: 16/05/As INITIAL METGHT: 103.0 GAA THTS ANYMAN, HAS NUT REFU MEMINFU FRUM THE EXPENTM
A.1AL ID: GGUOUSYZ SPECIES: 1) SEX: HIGH DATE: IC/US/AS INITIAL HEIGHT: Tats amigal has nut Refu mendufu fhum Tot
A.T.AL ID: 0400V542 SPECIES: 9141H DATE: 1<05/45 INITIAL WITTS APENIES NOT BEFN WENDYFU
A.T.AL 10: 04000542 HIGH DATE: 1c/u5/As THIS AMINAL HAS NOT R

7 N A 2 L	AL HAS NUT	REFLERENCE	Pari 1990	ofs antidal has not Refly afailate they for Eateriment.
		USSERVATIUNS	IUNO	
- चाम्स	114		af IGHT LGUANN	AFIGHT LEAGUEST CLIBICAL DESERVALINGS
c/14/A4	8:54:38	0045150	240.0	BUNKHAL
C/15/84	3:26:30	0.1500		NU YRAL NU XHAL
Z/11/94	4:40:10	0044225		108MAL
15/84</td <td>4:02:30</td> <td>0.43150</td> <td>264.6</td> <td>יייסאיי</td>	4:02:30	0.43150	264.6	יייסאיי
74/00/2	4:00:5	0046252		ないかぶカレ
4/64/5	8:39:10	0035743		NORMAL
e/17/84	4:00:14	0.45150	212.0	147 विकास
£/140/2	7:15:44	0.44232		SLIGHT EXUPATHALMUS
45/50/2	15:29:44	0053237		SELICHT DEFOESSED GF-SFING REFLEX
c/15/44	10:45:10	0053257		SLIGH! DEFRESSED GGASPING REFLFA
*#/50/2	11:07:03	051500		SLIGH! UEFRESSFU GRASFLAG REFLEX
2103/A4	4:69:69	0042150	150.0	NURRAL
4915012	4:35:40	0045150		SLIGHT REG NOSE MATERIAL
411117	14:55:58	0044400		NORMAL
1/31/84	13:44:04	0435743		MUDERATE MUDERATE FOSTORE, JELSOT INCRESSED STARTER REFLEX.MODERATE CLEAR Name discrete marked increased calleation. Selical of Pressor aloation and
				SLIGHT LLEAM LAURIHATION OF ENATE DEPARTS SED GRASPING MEFLEX
1/51/84	1/31/84 12:14:58 0069406	9069406		SLIGHI CLEAM MOUTH MAIEMIAL, SLIGHI CHMOMODACRTOARMEA, SLIGHI EXOPMIMAL 40s. Marreu oepresseu braspilig Klflex
1/51/84	4:01:82	0045150	174.0	* NU UMSERVATIONS REGORDED.
1/30/84	4:44:40	0 0 3 5 7 4 3	165.0	* NU UBSERVATIONS RECUPUT.
1/21/84	11:10:40	001200	194.0	* NO DRIENVATIONS PECURUED.

Fight Edding Edding Edding Edding Elding Sticker S	## First Fir	2.0.0.0 2.0.0.0 2.0.0.0 1.45.0 1.72.0 1.01.0
710.0 210.0 210.0 195.0 17.0 101.0	## Feet Feet	## [[
	1335 KW W M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

GRUTH: 218 96/16

	JUANAUTIVE 10: JP400045/	
\$37 Mr 1308	OUAMAUT 13	
:4:020	S1-1-5	. 15, 21.
14. F	L. 0.414	FXPLR
, E X :	16111.	E_ 1074
SPECIFO: 1) SEX: 14LF 67UIF: 500 45766	41-1- 1412: 16/12/85 FIFTAL -EIGHT- 214-0 G-545	TO STATE THE STORE OF WELL AFRICAND PROMETER EXPERIENCE.
1.1 3. 1.1 ABJULAS	C: 16/11/13	FIGSTH TT.
(,) ; (,	1 41 -1 - 1 1	.,

Sc2vA110.35	
, C = -	

<i>7</i> 1																SETURI KED NASAL DISCHARGE, MUDERALE TKRITAHLE	Locadage	Petuku£u.	1 to
PERSONER INSEND LLINICAL DESERVATIONS	NURSAL	NURNAL	RUNHAL	NOR44	JURNAL	NURABL	NO455AL	NUSMAL	NUNHAL	SLIGHT ROUGH CPAT	SLIGHT ROUGH COAT	SLIGHT KNUGA LUAT	SLIGHT ROUGH COAT	RURAR	ህ ወጓዳ ለ L	SLIGHT RED WASAL U	SELECT RED WASAL DISCHARGE	* NO UBSERVATIONS PELURUED.	
 7 755 5751	451.0				407.1			245.0					265.0					262.0	
urkasıtıd.	4616444	0.043130	1080000	324400	1,043150	GC 62+00	1132743	0.005156	0 1467 52	0.055257	11,552,7	0042130	0045150	9615449	10.52743	9,43,543	0035745	11045151	
	3:01:5	1:34:53	14:00:44	¥:45:10	5:62:13	6456556	1:01:40	00:50:5	36:11:0	13:61:50	10:34:22	10:53:19	12:50:5	4:45:14	1:14:40	14:57:54	14:49:50	4:04:40	
Je Li	72/71/3	**/* 1/:	+4/c1/	**/11/2	* (10172		*5.11.77	2/11/14	104144	. 4/50/5	A410012	+=/50/2	e/03/04	1102154	4,41,43	131/54	1/31/44	1/31/34	

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SERVATIONS

									REFLEX						MUDERATE ADUGH COAT,MADAEU DIARRHEA,SLIGHI MED EYE MAIRKIAL,SLIGHI NED		MUDICATE KOUGH LOAI,MARKEU IRKIIAGLE,HAKKEN IKORKASEU SALIVATIUR,SLIGHI KEU Eka bitiotai joiguate on Dusikei Jiraiihin keelekisilehi suulativa,hakkeu	Mulichalle isabbatte			•		
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A. 194 17: ABUNDER SPECIFS: D SEX: FEMALE BRUNE: 360 MINAG	PIFIN DATE: 12/US/45 INITIAL REIGHT: 101.0 GHANS	THIS ATTITUL HAS NOT MEE. MENINED FROM THE EXPERINCHI.

OUSERVATIONS

FEGGIQUE LEGALOTICE OF SERVALINAS	4	-4		4	٠	==		HUBMAL	41 STVERALTIVE	,,	<u>ب</u>	SE [GH] INAC!IVF	SELGHT INCOCASED STAPLIE REFLEX, SCIGHT HYPERACTIVE		SELCHI REU HOUTH STAIN	SCIGHT ROUGH CAAT, MUDERATE 18211AULE, SCIGHT INCREASED SALIVATION	SLICH! HYPERACTIVE. POLKATE INPITABLE	* RO CHSFAVAIIOMS RECURDED.	NO DRUEHVATIONS PLEURDEL.	NU (HUSEAVATIONS PECURUEL.	
316113	PURHAL	1102.41	NURMAL	NOADN	7 4 12 5 17	1108 % AL	110344	NOOMA	SL 16H	かいかいまし	NURSE	SLIGH	SLIGH	NUPHAL	SLIGH	SLIGH	SL JUH	*	. J.	*	
1568051	2.46.0				7<1.0			213.0					191.0					105.0	140.0	102.0	
HOLEUALUR	0.45150	0045150	6000 \$57	375400	021240	1. 444.23	0.35743	042150	6044232	1.052527	0.53237	0.45150	000000	6.63150	9771475	11.03.2743	FL 337+3	0.0000	4435743	0.45150	
-127	01:94:14	9:14:50	14:14:28	7:48:40	7145144	01.49:30	b: c7:54	0:36:54	4:35:85	13:47:40	10:41:30	10:36:16	0:36:50	4:17:20	12:03:20	13:65:10	11:30:10	9:13:30	4:05:40	10:27:01	
"NAIL"IAL	48/11/2	44/21/2	2/13/ku	2/11/4	2/10/54	# d / 6 7 / 2	78/10/2	48/10/2	4414012	44/50/7	4415112	74/80/2	2/113/84	4/07/P4	2/11/44	1/31/R4	1/51/34	1/31/84	1/50/34	1/67/44	

ANIMAL 10: 04000536 SPECIFO: D. SEX: FEMALE BRUNP: 360 NG/AR HIPTH DAIE: 12/05/45 INITIAL WEIGHT: 165.0 GAAAS GUANAWIINE ID: GAWDU0530 IMIS ANIMAL HAS NUI REEM RENOVED FROM THE EXPERIMENT.

DAERVALIUNA

	NUARAUTINE ID: URUDURS61	
GRUIPE 309 MINAS	DUAKALIT INE	
- ABOBS	A 7:5	YENÍ.
FEMALE	1/5.0 GR	IE FAPERI
o Sex	"£1GnT:	U FRUM Tr
SPECIES	13171AL	FA VFIIOVE
4.1MAL 19: 84000501 SPECIES: 0 SEK: FEMALE	BINIH DATE: 12/05/83 INITIAL "EIGHT: 1/5.0 GKANS	THIS ATTITUE HAS NOT REFIGUATION FOR FROM THE EXPERIMENT.
AL 19: 8	H DATE:	A'IL'IAL
× 1.	115	THIS

OBSERVATIONS

PàIc.	177	DELAAIUK	1514251	BAIC. LITTE. DEEMAIDH 1684451 BLIULGAL GOSESMAIIVMA
2/14/84	0:47:16	0442150	264.0	NUPKAL
c/13/34	0:40:34	0.4515"		SEIGHT HYPERACTIVE
4/17/P4	10:41:71	0.000337		NURBAL
2/11/44	4:56:50	0 4 4 4 2 4 5		ארטאאר
2/10/8-	0:55:46	0045150	225.0	NUT-3AL
40,0012	4:55:10	C44220		14E-505
34/30/7	0:54:42	0043743		שמשאחש
2107/14	9: 14: 0	6445150	0.215	NUR JAL
48/40/2	45.00:4	0046252		SETEM IRALESCHEN ELOPHHALMOS
2/05/84	15:29:04	0.55237		ないである。
18/8/17	10:41:20	0453237		T S S S S S S S S S S S S S S S S S S S
44/00/2	13:01:24	_		MODERATE HYPERACTIVE
オテンドコング	7:10:50		158.0	MODERATE MICPEASFU STARME KEFLEX, SLIGHE AYPERALTIVE, SLIGHT
				INCREASED RESTINATION PAIR
2/05/A	7:52:6	0045150		SEIGHI INCREASEU SIAPILE REFLEX
4411012	16:17:16	5064405		NURBAL
1/51/84		0033743		MUNERATE INCREASED STAPILE REFLEXISCIONI NEU LASAL VISCHANGE, SLIGHT
				Intelle
1/31/Ru	1/31/84 1;:44:20 0U33743	0033743		SEIGHT WED JASSE DISCHANGE, SEIGHT MYPERACTIVE
1/51/84	4:15:00	0042150	175.0	* AL DHOFRVATIONS RECORDED.
1/50/34		0033743	1,77.0	* No UBSFAUNTIONS RECURSE.
1/27/34	1/27/84 10:35:34	0043150	9.75.	+ NO UBSEAVATIONS PECCODED.

	HUAMASTENE ID: UNGOODS
	: 07
300 Mu/AG	HUANALTINE
7	A.45
4 4 4 7 7	152.0 GK
	D SEA JE16nT: L4:34:48
1	SPECIFS: INITIAL ILAF:
	ALIMAL ID: GADDOSOB SPECIES: D SEA: FEARE GADDO GUARAGITAE ID: URADODO HLAIM DATE: 12/07/83 INITIAL WEIGHT: 152.0 GRAMS GUARAGITAE ID: URADODO HENDVAL DATE: 1/31/84 [IAF: 14:34:48 AEASOGI: DEAD

OSERVATIONS

LILME. DYERALDH ISHANSI GLADICAL DASERALIUDA	DEALN PROSTATE, MARRED TWITCHING, MARRED TACREASED SALIVATION, PARSTATE THE MARKED TO COLLOW SALIVATED THE MARKED THE MARKED TO COLLOW SETTING THE MARKED T	SELGEN INRETIVE, SELGEN MYFERALTIVE, MEKKE! DEPRENSED GRESTAME RETELMENT.	105.U * 11. UMJERVATIO:18 RECURVEU. 177.U * NU UNSERVATIONS RECURVEU. 169.U * NU UMSERVATIONS RECUPUEU.
DPEKALDE	0035743	4044906	0.435743 177.0 0.435743 177.0 0.455150 189.0
1111	1/31/P4 14:54:46 0035743 1/51/P4 15:31:22 0035743	1/31/84 11:36:26 9064406	9:16:5d 4:19:0u 10:5A:44
-1140-	1/51/84	1/31/84	1/51/44

A.IIAL ATE AGGGATO DPESTESE) SEXE FRAGE GAGINE GOUNDAAG ALADH DATE TEZOSZAS TYTTAL GETGATE 149-0 SEAAS ACTORAL MATE: EZOTZA TREET TREESTED PEAGON: DEAD

OuseRvallu45

AFILT TELESTOR SERVICE LEADING SERVICE CALLED CASE CALLINGS	PERIN PURINGUI INTRED J'ELERSED STAFILE MEFICX, MAKARÉ DISCHARGE, MARKED KEU EYE MATEKINE. INTRENCI'S MALINATIONA, MAKAREN CLERR MASAL DISCHARGE, MARKEU KEU EYE MATEKINE. BAKKEU UFFRESSEU KIUMIINF PEFEKX, MAKAREN TATIONING, MAKAREU	INDERJUAR PESPIRATION Seloni my Cheu Phostope, delfat thembas, seloni med ete haifmial, seloni med Nojin material, delfat ren imsal dischmare, muderate exupatmalmos	* TO UMSEMMATIONS RECUMPION * NO UMSEMMATIONS RECUMPION * NO UMSEMMATIONS RECUMPION	
NF 16H T Lukand			154.0	
90162720	0059406 0033743 0059406	0,69496	0.45150	
1125	6/01/84 16:60:50 0084406 1/31/44 14:56:20 663743 1/31/44 15:55:16 0054406	AUDYALO 12:90:11 44/18/1	1/3//44 9:18:44 0.45 50 154.0 1/3//44 9:20:16 0.35/43 1/5.0 1/2//44 10:59:56 0.45 50 167.0	1
	1/51/24	1/31/84	1/51/84 1/50/84 1/67/84	

ANIMAL IN: MADDOSTZ SPECIES: N SCX: FLNALE GROUP: 360 Mb/nG MIRIH NATE: 16/05/83 IAITIAL WFIGHT: 1/4.0 GWAMS IMIS AUIMAL HAS NOT BEFA HEMOVFO FRUN INE FAPERIMENI.

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/51/84 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0044800	3	SECURITY THREE THREE OF THE SECURITY RESTRICTED TO THE SECURITY OF THE SECURIT
	1119:40	4:13:44 0:45150	2.5	* 10 OASEKANIINS MESSESS.**
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300 ME/KG Quarantine ID: UB4DU05A4		
GROUP :		ERKALIUDS
FEMALE 157.0 GHA! EXPERIM		ILCAL DUSI
SEX: GHT: 1 RUM THE		T CL19
ES: D AL NE.	IUNS	.E. IGHT
SPECI INITI ALEN HEN	OBSERVATIONS	OVERALUN
ARIMAL IN: BAUDUSGO SPECIES: U SEX: FEMALE GRUUP: 300 MG/KG Birih nate: 12/US/AS Initial meight: 157.0 Grams This arimal has nut reen memoveu frum the experiment.		"FIGHT "IME" OPEGALUM IGWANSI CLIMICAL DASERMALIUUN
ALIMAL LO BIRIT DAT THIS ANLY		PAIL

ALITHLE DES AND READ SPECIES: D SET FEMALE GROUP: 300 MG/MG ALITHLE DESCRIPTIONS CZIAZA STATES CZIAZA CZIAZA STATES CZIAZA C	SPECIES: D SEX: FEMALE GROUP: INITIAL ACIGNT: 157.0 GMAMS REN MEMOVEU FROM THE EXPERIMENT.
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,	DUAKAMIINE ID: UBUDUNDO	
A.1744 10: BUDDUS90 SPECIES: D SEX: FEMALE GRUUP: 360 MG/KG	DUARA INT INE	
. 400A2	SE	r N I .
FLMALE	147.0 GKA	E EAPERIM
SEX:	16nT:	FRUM TH
_	¥	3
SPECIES	AIRIN DATE: 16/05/AS INITIAL HEIGHT: 147.0 GRANS	THIS ATIMAL HAS NOT BEEN KENOVED FROM THE EAPERIMENT.
06800000	16/05/85	HAS NOT B
:07	PATE:	14 M 7 7.1
A I A.	1818	Inla

OBSERVATIONS

1441	111	UPERAIDA	15K4N51	LIME. CHEKAIOM IGUAMSI CLIMICAL DUSERVALIUMA
2/14/84	4:53:56	0045150	213.0	NUKAAL
2/13/Pu	0:52:40	6045150		NORMAL
4/15/24	14:17:32	_		NOGRAL
2/11/Pu	7: 39:50	_		אראטע
11/94<br 4/1/94	4:01:30	0.45150	206.0	NURINAL
*#/E7/>	8:39:46	0046732		Jakeun
41.81.12	0: 34:30	0 0 3 5 7 4 3		NURHAL
2/17/B4	51:95:0	0042150	199.0	NURSEL
44/44/2	7:14:16	0.42252		SOS SAL
c/15/84	13:24:20	0.55537		SLIGH! INACTIVE, SLIGH! DEPRESSED GRASPING REFLEX
4/10/84	10:45:04	1055527		SLIGHT INACTIVE, SLIGHT DEPRESSED GRASFING REFLEX
4 K / 17 7 / 2	11:05:46	0045150		SLIGHT INACTIVE, SLIGHT DEPRESSED GRASHING PLFLEX
c/v3/#4	9:65:40	042130	176.0	SLIGH! EXUPHIMALMUS, SLIGH! DEPRESSED GRASPING PEFLEX, SLIGH! INACTIVE
44/20/2	9:54:5	041000		NURHAL
C/11/44	14:55:10	9024400		ተበውቋቋል
1/31/24	15:47:34	0 4 3 5 7 4 3		MUDERATE HOUGH LOAT, MUDERATE IRRITABLE, NAMKED KED NASAL DISCHARCE, MUDERATE
				DEPKESSED RIGHTING MEFLEX, MUDERATE CHEMING, SCIEGHT INCHEASED RESPINATION RATE
1/51/94	1/31/44 16:16:40	0.35743		SLIGHT HUNCHED FOSTURE, SLIGHT RED NASAL DISCHARGE
1/31/34	7:4:60	0045150	147.0	* NO UBSERVATIONS RECORDED.
1/30/84	4:67:54	0033743	1/3.0	* NO OBSERVATIONS RECURVED.
1 / 2 7 / B.	0 1 C 4 C 1 C C C C C C C C C C C C C C C	0.451.50	162.0	* NO URSENVATIONS RECURDED.

A''INAL ID: BAUDUSY3 SPECIFS:"D SEX: FEMALE GRUIP: 300 ML/AG AIM'M DETE: 12/05/83 INITIAL WEIGHT: 16°,0 GHAMS IOAMANINE ID: UBMDUS93 MEKUVAL DATE: 2/02/84 IIME: 13:38:44 REASON: PHYSILAL AMWOHMALITY

OBSERVAI TUNS

ME 16NT 164451 166.0 178.0
0054410E
13:58:44 9:21:40 9:29:12
001E E/U2/94 1/51/84 1/59/84

JA40.00451			DEATH MACHEL TRAITABLE, SLIGHT NANN I PERIA VAL MATFAIAL, SLIGHT KOUGH COAT SLICHT TREMUBS, DLIGHT DEPHENSED GRASPING MFFLEX F. CO. UMSEMVATIONS RECURREC ** NO. UMSEMVATIONS RECURREC ** NO. UMSEMVATIONS RECURREC ** NO. UMSEMVATIONS RECURREC
9 : 61			PERIA O GRAN
ADAMANTINE IN: WAADUAASI			661 9403 1 T DEPAFOSE CURVEU. CURVEU. CURVEU.
<u>:</u>		Serkallums	DCAIM MASNED TRYTIABLE SELIGIT NEPRO SELICHI TREMUES, SELIGHT NEPROF * TO URSERVATIONS RECUSOR * NO URSERVATIONS RECUSOR * TO URSERVATIONS RECUSOR * TO URSERVATIONS
X: "4LE 213,U GA 4 PEASON		LESCAL DE	######################################
5: D SE L WEIGHT:	SAO	REIGHT PRESENT	0°612
SPECIE INITIA A4 IIAF	OSSERVATIONS	NOTERSAL	003743 6053743 6053743 6053743 0033743
A.I.AL ID: SAUDUASI SPECIES: D SEX: WALE GOU! Jisim Dail: 12/12/23 INITIAL WEIGHT: 213.0 GMANS Metucal Dail: 2/41/84 IIAF: A:U1:24 PEASON: DEAD		AFIGHT LIME UPERAION 19880S) LEIVIGAL-DRSERVALIUMS	10:152 10
A.1.AL ID: 31214 DATE			1

AAITAAL ID: GADOVA10 SPECIES: N 96X: "NALE GADOV" AGA MG/AG BIRIA NATE: 16/12/AS INITIAL AFIGNT: 202.0 ARAAS DOAMAATIAE ID: GAANOOA70 Tats aginal Has Hoj Been membued foom ine Experivent.

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##/F1/2	4:15:23	0.40000	319.0	ህወተጠልል
48781/2	1:39:73	0045150		100my
2/12/R4	14:03:54	4000337		Tenno
2/11/8+	7:10:55	6244265		J≪T+COZ
44.101.72	0:47:10	0.042150	301.0	N. C.
4476117	8:36:63	0.44.25.0		1444.02
75/80/2	0:12:44	0.35745		NUCLIBL
4416112	4:13:32	0.42150	247.0	444400
46/40/2		9746752		SLIGH! VOCALIZION
2/05/84	13:62:54	0055257		NUS 18L
4/50/2	10:35:10	1055501		AURAR.
2/04/PS	10:42:34	1145150		SELUAL ADDIS LONT. SELUAL LAKINGLE
4412012	9:14:34	0042130	245.0	Scient Rough COAT
44/60/2	20:25:0	1143150		SCICHT AED ADUF STATIN
34/17/	3:42:40	0.32743		SELIGHT HOUGH COAT, SELIGHT REU HOUTH STAIM, SELIGHT INCHEASED RESPINA
1/11/Bu	15:35:46	1) 035743		MARKEU KOUSH CONT, MARKEU KEU JIIOE STAIN, TAPREU KEU JOJIH STAIN SE
				DEDAKSSED AIGHTING MEFLEX, MUDERATE DEPHESSED BRASFING REFLEX, MAKK
				THALTABLE
1/51/84		14:37:40 0033743		NUMAAL
1/31/84		0042150	2,42.0	* AL CHUERVATIONS RECURRET.
1/50/AG		0033743	J. 70%	+ NO OASEAVATIONS PRECOPED.
1/27/84	_	044 1 50	741.0	* こし しなものえなをすまりるの PROセネンだひ.

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0043130 0043130 0443131 0453143 045	2/14/84	9:<0:05	0042150	351.0	NURABL
049724 049130 043130	34/01/0	14:74:50	0045150		NOTABL MUSABL
145131 70.00 145131 799.0 145132 799.0 145237 145237 145333 796.0 145343 705.0 145343 705.0 145343 705.0 145343 705.0 145343 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 1453534 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145353 706.0 145354 706.0	11/F</td <td>7:14:05</td> <td>4764770</td> <td></td> <td>141 N. C. D. L. C. C.</td>	7:14:05	4764770		141 N. C. D. L. C.
0.8374.3 0.8374.3 0.8374.3 0.832.3 0.832.3 0.833.4	14/61/2	01.12.00	0.45150	301.0	NEXXXI
049130 299.0 052527 052527 052527 053527 053528 053543 053543 053543 053543 0525130 053543 0525130 053543 052527	44/40/2	8:15:44	6032743		1 4 5 5 C C C
15.25.7 15.	41/1/2	0:14:15	0.45150	0.644	NURval
193737 193737 193743 193743 193743 193743 193743 193743 193743 193743 193743 193743 193743 194726 196711 19671134 196711	# # / · · · · · ·	5:30:46	444440		10 4 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1
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1943199 253743 253743 253743 253743 253743 253.0 253.0 252743 252	2163/84	25:42:6	651550	202.0	אייאר
252443 135743 135743 135743 135743 2529_0 253_0 2511111 AL .E.E.HT 12574111 AL .E.E.HT 1257411 AL .E.E.HT 1257411 AL .E.E.HT 1257411 AL .E.E.HT 125741 AL	4×/c//>	27:00:0	40.421.59		אסיניאר
0.53743 445150 45130 45130 55100 55100 5511144 551144 5511	77/17/7	41.4.14	C - C - C - C - C - C - C - C - C - C -		Note that I that
25.74.3 22.9.0 25.74.3 25.0 25.74.3 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	1/31/64	11:03:50	0033743		SELECT NUMBER CHAINTENENT NEW MATERIALISTICATION RATE S. I.M. AMAZITAN CALLEL SELECTOR CONCENTRY OF A
143743 765.0 45310 15310	1/51/84	40:62:4	04 5 50	9695	したこと トラスト・コイン・フレール・フレール・フレール・フレール・フレール・フレール・フレール・フレール
SPECIES: 10 SE I'll Tal SE I'll	1/30/84	4:47:36	0.53743	20.50	* NO OPPORTANT TOTAL TOTAL
LETALUM LEGATI LETALUM LEGATI LETALUM LEMANS LEGATI LOUGH LOUGH LEGATI LOUGH LEGATI LOUGH LEGATI LOUGH LEGATI LOUGH LEGATI LOUGH LEGATI LOUGH LEGATI LOUGH LEGATI LOUGH LEGATI LOUG	1/27/94	10:14:53	0042120	233.0	* NO UBSERVATIONS RECURSED.
	Asimal in Alpin Dai Tels amin	1: 04960496 12: 16/12/8 14E MAS NUT	S SPECIL AS INITI I HEEJ NEW	EST D SALESEN	: 410
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	2/14/84	6:62:34	11043130	349.0	NUPAAL
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1117550 0.045450 0:39:44 0.042552 0:217724 0.035743 0:217724 0.045237 10:247:14 0.045237 10:247:14 0.045130 4:01:54 0.035130 4:01:54 0.035143 11:07:54 0.035143 11:07:54 0.035143 11:07:54 0.035143 11:07:54 0.045150	2/12/84	14:06:18			NURMAL
11:72:90 00 35:743 0:10:26:12 00 35:743 0:26:12 00 42:525 10:26:12 00 42:130 9:01:50 00 43:130 9:01:50 00 43:140 9:01:50 00 43:743 11:07:50 00 43:743 11:07:50 00 43:743 11:07:50 00 43:743 11:07:50 00 43:743 11:07:50 00 43:743 11:07:50 00 43:743	**/-1/>	05:21:4	0.44/QJ	415	No. 12 Marie 1
11.07.20 00.50.743 0.10.26.12 0.08.25.37 10.26.154 0.05.25.7 10.16.19 0.04.01.50 4:01.50 0.04.01.50 4:01.60 0.05.743 11:07.20 0.05.743 11:07.20 0.05.743 11:07.20 0.05.743 11:07.20 0.05.743 11:07.20 0.05.743 11:07.20 0.05.743	77.07.0	0.00.00	0.0000	0.015	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
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9:26:50 0.045150 214.0 6:50:32 0.035744 250.0 10:62:00 0.045156 215.0	1/51/84	11:07:20	0035743		SLIGHT NEU GAGAL DIOCHANGE
6:50:32 0.555747 2505.0 *	1/31/84	4:46:50	11040150	214.0	* TO CONDITION RECORDED OF
ON # 0.615 0616400 00155101	1/30/34	0:50:32	9.32743	0.00	
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4.[14c 10] nejou443 SPECIES: D SEX: NALE GRUUP: 4c4 46/46 Aloja Date: 1412/45 INITAL "Elüht: 113.0 Graas Guarautite 10: 3640v0443 Tils actial mas but Aefn afolyfo frum The Experiment.

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UPESALUE LESAMSI ELIMICAL USSERVALIUMS	145.800	NURMAL	NUKMAL	ነበውልልኒ	TWE-ON	RUPAAL	NURME	NURAAL	NURIAL	MUZHAL	Notate	14光なつな	MUDERATE DEPRESSED MICHING PEFLEA	NURMAL	NOPIAL	MUDERATE INCOLASFO STARILE HFFLEX	SLIGHT HYPERALTIVE	* NO UMSERVATIONS RECUPUED.	* NO UBSERVATIONS RECORDED.	219.0 . NU UMSENVATIONS RECURVED.
TENVEST	169.0				341.0			342.0					2/1.0					216.0	234.U	219.0
	0.45150			(1047265	0045150	らいなくろうろ	0033743	0445150	0046737	0055237	0055537	0042150	0.445150				0.035744		0.33743	04421211
11.	0:63:04	44:04	14:05:30	4:17:58	0:31:50	9:4:0:00	9:17:44	9:40:00	0:35:40	15:64.24	10:3/:10	10:47:40	35:36:86	7:05:4	70:07:4	14:42:50	11:08:10	1:67:72	40:10:0	1/27/14 10:52:24
12.	** / 7 / 7	24/7/	C/15/4	C/11/84	C/16/24	*1 /60/2	74/43/7	4/11/2	44/40/7	44/57/2	21051 A4	4 4 7 4 7 7 Y	C/03/A4	3410012	2/c1/2	1/31/44	1/51/64	1/31/64	1/50/84	1/67/144

AIIMAL 18: OGDGOSVA SPECIES: 9 SEX: MALE GRUIP: GOA MYKG 31HIM PATE: 12/12/83 INITIAL WEIGHT: 212.0 GRAMS GUARAWIIWE 18: WAARDOBSA Ints wiyal mas nut beew membueu from the Experiment.

DOSERVATIONS

																	MARNED SOMMOLENCE, MODERATE MINDEL COAT, SCIEM! INCHEASED STAFF	SELEME RED MASAL DISCRANSESCICLED OF PRESSED PIGNIES REFLEX.		SETSHI DEPPENSED GRASPING REFERNICIEM RED NASAL DISCHARGE			
	OCEMBLOR 15120051 CLITTCAL DESERVALIUM	NJ9-1AL	NO-AAAL	NURSAL	PUR 1AL	Terans	NUPHAL	NO-3-12 F	16250M	SLIGHT KOUGH COAT	74400	JUP. 4AL	SLIGHT ROUGH COAT	SLIGHT KOUGH COAT	13.04 + A.L.	MAAREU KOUGH COAT	MARNED SUNVOLENCE, MUNERATE	SETTENT RED MASAL DISCHANGE,	INCAFASED RESPIRATION PAIR	SETSHI DEPPESSED GPASPING 4	* NO UBSERVATIONS RESURGED.	* NO CASERVATIONS BEGURED.	* 40 URSEAVAIJONS ARCONOFII.
REIGHT	7517757	451.0				\$21.0			366.0					201.0							257.0	0.014	0.045
	なみていません	0045150	0045150	6060557	044265	0442150	0.042232	0435744	9045150	9042232	0.55537	0.53237	0.45150	0 1 4 5 0	0045130	0.054400	0035743			00.33743	0.4551.50	0035743	0.45150
		h:ch:30	8:06:20	14:07:50	7:61:14	0:57:24	35.4.58	4:11:54	0:47:50	4:58:20	15:45:04	10:50:52	10:50:10	0:41:54	90:40:6	11:41:36	14:07:10			11:14:35	4:64:50	20:25:0	10:08:40
	2415	c/14/n=	44/21/2	4/12/84	£/11/8*	c/10/84	*# /60/2	2/08/X4	2/07/84	4/11P/B4	4/02/34	415017	44/40/7	46/20/2	44/c0/2	4/c1/84	1/31/24		•	1/31/84	1/51/84	1/30/84	1/27/44

0.0513 SPECIFO: IN SEX. SEL. 0.400F. 404 "GAN. (1.2745. 141718L. SEIGHT: 194.0 GAN. EAGILAR TIME: R.UO:20 92850.: DERU	SEED TOPEDAION IGHANDI ULINICAL UDSEPLATIUNA	A:20 0035743 AARAFU AYUPEASEU SI JILE HFFLEX,MARKEU JUJPINU-SLIGAT 4010H CUAT,MARKEU HISD 0035743 AARAFU HRITAREL HISTORIA MASAL DISCHARGE,MUDERATE HRITAREL HISDREU PROSIDERATE SAUJAH) WESAL DISCHARGEU PROSIDER	044446 044350 222.0 0633743 234.0 643150 226.0	AATIAL IV: SCJOVS16 SPECIFS: D SEX: "AIF SOUTH: AGA POZAG ARSIA GATE: 12/12/85 INITIAL AE1GHT: 107.0 GAAJS DOAMAJTINE ID: WAADUDS10 FHIS AJI'AL MAS HUT BEEN AEHDYFD PROY THE EXPERTITOR.	USSERVATIONS	NEIGHT NEIGHT LEAGHS LLIGHT DASSEMAILEGS	0045150 314.0 0045150	3124 0000557 40RMAL -4100 0049225 110444L	0.45150 278.0	1030743 NORTAL	040150 255.0	UUSSPS1 SLICH! AOUGH	0.055257 SLIGHT	0.45150 214.0 NORMAL	0042150			2-21-04-377-43 SLICHT FEET MANAGE CONTROL OF	0.455 0616.00	Charles and the contract of th
4. C	Detal		004315 003374 044315	3 39E	USSCRV	DEEMAL	004515	450000 454400	0.4513	0.3574	0.4515	0.55575	0.05525	0.4513	004215	0.4400		0.3574	611447	1.4.0
: 04-000513 pr 16/12/40		1:14:50	11:19:44	ANTTAL IP: SCOOUSIS SLOIM UNIE: 16/12/8 THIS AUTULL MAS NUT		12.07	6:50:40	14:13:24	01:1:40	01:01:0	0:34:54	13:45:54	10:46:10	00:04:0	45:00:6	11:56:14		11:62:04	11:2:21	
ANIMAL DE GALDOSES MINIM NATE: ICZZZAS MEMUYAL DATE: CZULY	JAI	6/01/84 1/51/84	1/51/84 1/51/84 1/50/84	ANTIAL IN: SCOONSIS ALDIA GATE: 16/12/85 THIS ASITUR HAS BUT B		AIE	6/14/54	2/12/84 C/11/64	- 101/2	74/53/V	c/u1/34	C/C5/R4	44/50/2	******	2/02/44	4/07/V	***************************************	1/51/84	14/11/1	

way appropried seconds probablished which the

A.1 2L 17: GADDUSC? SPECIFS: D SEX: JALE GOUIP: 484 MU/AG NJIH NATE: TEXTRIMS INITIAL "FIGHT: TOA"U GHANS WORKANTIAL [D: WRADDUSCE TRIS A"11"H, MAS WOT HEFM MERINYFO FROW THE EXPERTMENT.		CLL34CaL_0asc2t2110b2	Scient invitable Scient invitable Scient invitable Scient invitable Scient invitable Scient invitable Number	dubya. Stievi irailaste.olifnii Licheasen Respiration Rate. Nuyha. Nuyha. Nuyha. Slievi mough chai Slievi mough chai Nuyha. Slievi mough chai Nuyha. Slievi mough chai Slievi mough chai Slievi mough chai Slievi mough chailabe.chofna fe Calalebsy Slievi juyliabe.chofna fe Calalebsy Slievi juyliabe.chofni Red Plasa. Discharge, slievi iRemugo e no underwations specure.	1/27/A 10:37:56 10,43130 213.0 + NO UMSFNVATIONS PECUVED. A.1.46 ID: 04.000527 SPECIFS: D SEX: FEMALE GROUP: 404 No.A.A. BLYIN DATE: 12/05/A3 12111AL WEIGHT: 1/7.0 GAANS BUANANTINE 1D: WA4DUOS21 FILS ANIMAL MAS HUT EEG MEMOVED FROM THE EXPERIMENT. 0.5524VATIONS	CLANGEL DESERVATIVES	MARNED ALUPECIA MEAD MARNED ALUPECIA HEAD MARNED ALUPECIA HEAD MARNED ALUPECIA HEAD MARNED ALUPECIA HEAD MARNED ALUPECIA HEAD MARNED ALUPECIA MEAD MARNED ALUPECIA MEAD MARNED ALUPECIA MEAD MARNED ALUPECIA MEAD	SLIGHT INCREASED STRILE WFFLEX, SLICHT INCREASED MESPLOATION ANIE, MARKEU ALOPELIA SCAR HEAD SLIGHT INCREASED STROTLE MEFLEX, SLICHT ALOPECIA SLAU MEAN SLICHT MOUGH COAT, SLICHT MED MATERIAL, SLICHT PED MUTH STAIT, WODERATE SLICHT MOUGH COAT, SLICHT MED MATERIAL, SLICHT PED MUTH STAIT, WODERATE SLICHT MOUGH COAT, SLICHT MED MUTH STAIM, SLICHT PED MATERIAL SLICHT MATERACTIVE, SLICHT MED MUTH STAIM, SLICHT PED MASAL DISCHARGE, SLICHT MYERACTIVE, SLICHT METARE * NU UNSERWATIONS RECURVED.* * NU UNSERVATIONS RECURVED.*
5: 1) L F. LGH VF.U. F.RU	5170	NF IGHT LECANSI	350.0	6.44.0 6.020.0	213.0 St. D. S L. WELGH VFU FRUI	15 16HT	254.0 259.0 224.0	143.0 174.0 147.0 188.0
SPECIFS: 1) SPECIFS: 1) ALTIAL OF MEMOVED	CoSERVALIUNS	מכבמפוטמ	00044800 00064800 00064800 00064800 00064800 00064800 00064800		DECIFS: D SPECIFS: D S INITIAL WE REEW AEMOVFU OASERVATIONS	Detains	00000000000000000000000000000000000000	0.0407070 0.0507070 0.0507070 0.0507070 0.0507070 0.0507070 0.0507070 0.0507070 0.0507070
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A.1 at 10: oduđuše? 11dim nate: 12/18/4 Imlo animan, mas mul		17=0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1/27/84 10:37:50 1 A.1:34 10:37:50 1 H1414 DALE: 1005/73 Fn1S ANIMAL MAS Ruf E	7 4 7 7 7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	

MPT GOG My/RG	CCCOOLSON
1 404 Mb/hG	
FEMALE BRUIL	A + C - C - C - A - C - C - C - C - C - C -
TEST D SEXT I	ALTER ALESTA
A.T.AL IN: AGGONSE SPECIES: N SEX: FRMALE GROWN: GOG MATAGE ALAMAN SENTE: 12/05/FS 11/14AL VEIGHT: 157.0 GNAAS	MENGUAL DAILS CLOSLES STAFE VERSINA PERSONS
A.1.AL.	イベハウシンド

र्म	DEAIH NUDERATE, SUUINTIUS, AARKEÜ REÜ HASAL DISCHARUE, MARRED HED MOUTH STAIK, MARKEÜ VELLIN, PERIANAL SIAIN, AUGLANTE, IRENUNS, WUDERATE, RÜGÜN LATI, MODENATE, IRENUNS, LIGKERSEN SALIVATION, MOLERATE, TATICHINGY RED NASAL DISCHARUE, MUDERATE SITHH INTERACTIVENENATE, TATICHING, SLIGHT BERRESSED HIGHING REFLEX SITHH INTERACTIVENENATE, FOUND HASSENVATIONS PECUNEU. NU UNSERVATIONS PECUNEU. NU UNSERVATIONS PECUNEU. NU UNSERVATIONS PECUNEU.							
THE THE THE PROPERTY TRANSFER PRINTER OF SERVALIBLE	DEATH SOUTHTING	VELLIN PERTANAL ST MUDERATE HOUGH CPA	INCHEASED SALIVATI	TEPMENSED GRANDING METLOX /31/84 9:05:24 0.43130 105.0 * NO GRASHVATIONS PETUAGEO. /30/84 9:06:04 0.33743 1/5.0 * NO GRASHVATIONS PECUADEO. /27/84 10:44:54 0.43130 106.0 * NO URSENVATIONS RECORDEO.				
727227				155.0				
FITTE	0010150 0001404	8+76509	9125470	0.43130				
	2/07/84 /:45:50 Fe45150	1/51/84 14:E1:50 0035743	731784 11:53:40 GJA54JA	9155124 0.45150 155,0 9108104 0.35743 175,0 10149154 1045159 162,0				
	2707784	131/84	151184	/31/84 /30/84 /67/84 1				

ANIMAL ID: BADOUSSZ SVECIÍS: 1) SEX: FEMALE GRUUP: 469 MG/KG BIZIP DATE: 12/05/83 ISITIAL KEIKHT: 156,0 GAAKS OJAKA-TÍNE ID: JBADOUSSZ THÍS ASIMAL HAS NUT REE: KEMUVEÖ FRUM THE EAPERIMENI.

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CITALIA LEMAINS CLIMICAL DOSERVALIUMS	NURHAL	Tempon Tempon Tempon Tempon	NUTAL NUTAAL NUTAAL NUTAAL NUTAAL	SLIGHT HUNCHED POSTURE.SLIGHT REU NASAL DISCHARGE, SLIGHT INCREASED SALIVATION, SLIGHT IMPITABLE, WOORRATE INCREASED HE SLIGHT YELLUM PERIARA STAIN SLIGHT HE NASAL STAIN BLOM WEN NASAL USCHARGE, SLIGHT HIPERACTIVE HU UMSKWATIOUS PECURUEU.
16KA331	243.0	553.0	2<5.0 2u0,0	0.101
HETTE TOR	0042130	8,44265 6,44265 6,44265 1032343	0.042)30 0.042357 0.053537 0.053537 0.053537 0.042180	
-04tt1tit-	3:43:75 3:4:15:49	4:50:00:00:00:00:00:00:00:00:00:00:00:00:	15:C7:30 15:C7:30 15:C7:30 10:43:13 12:V0:56 9:U4:06 V:E7:10	11:41:56 0030743 4:56:76 0030743 4:56:76 0040150 7:13:14 0030743
DALE	C/12/84 C/13/84 C/12/84	40/20/0 6/10/7 6/10/7 6/10/7 6/10/7 6/10/7	##/ 17/2 ##/	1/31/84 1/51/84 1/51/84 1/67/84

			• :	×						
LLE GRUUP: ALA MLAAG GMA:18 RUAHAMTIYE ID: UA4Du0>5/ Gut Déau		NFIGHT NFIGHT LEASHED LEADINGER LEADINGER NATIOUS	DERIH Markeu Hungheu Posture, Marked Taliching, Markeu Indresseu starile Keplea, Pristraff, Markeu Indrese, saitua tambumanda ta sebasese, belasese	MAKREJ DEPRESSED GRASPING REFER. SLIGHT MUNCHED POSTOME, SLIGHT JUMPING, SLIGHT CLEAR MOUTH MATERIAL, SLIGHT	JEPATUSED GAAUPLNG AFFLEX * No ubueavataons recorded	NO UBSERVATIONS OF CHANGES	NU UBSERVATIONS RECURUED.		SPECIES: D SEX: FEMALE GRUIP: 464 MG/RG INITAL WEIGHT: 1/5.0 GRAMS HUAHANTINE ID: WAADWOSTI (THE: 15:25:56 REASON: DEAD	
INTIAL AEIGAT: 147.0 GRANG TIME: 7:54:20 REASON: DI		- שמיהוים	DEATH MARKEU H	MARKFU U	NO UBS	NO URS	ledu uk •		SPECIES: D SEX: FEMALE & INITIAL WEIGHT: 175.0 GMAMS ITHE: 15:25:56 REASON: DE	
NL 461647 E: 7:54:	50.03	NF IGHT			150.0	104.0	155.0		SPECIES: D SEX: INITIAL WEIGHT: :	(UNS
MILL PR	USSERVATIONS	10 to 10 de	0.35743	0.44400	0.45150	0.35743	0045159		SPECIF LVITL	UBSERVATIONS
NIPIM DATE: 12/05/MS INITIAL REIGHT: 147.0 GRAIS TEMUVAL DATE: 2/01/M4 IINE: 7:59:20 REASON: DEAD			/:>9:20 0035743 14:50:10 0069406	1/51/74 11:44:54 DUAYAUA		7:14:54	10:52:30		INTRIM TOTE: 12/05/AS IEMOVAL DATE: 12/05/AS	
NIWIN DATE: 12/35/8 TEMUVAL DATE: 2/01		"A15	2/01/4-	1/51/84	1/31/84	1/30/44	1/27/84 1			

DEATH
MURITHUM
MURITHUM
SLICHT JUNDING-SLIGHT RLD RUTH MATERIAL, HARKED DEPRESSEN GRASPING REFLEX
* NO UMSERVATIONS RECURDED.
* NO UMSERVATIONS RECURDED.
* NO UMSERVATIONS RECURDED.
* NO UMSERVATIONS RECURDED.

SPECIEU: D GRAN FEWERS GOARANTINE IO: GAGGOOTO AL IIAT: 14:11:48 PERSON: PERO	OCCUMENTAL ALIBICAL DASERVALIUMA AFIGM 1543132 LLIBICAL DASERVALIUMA		DEPARATE DEPARATE DEPARATED DE DE DEPARATED DE DEPARATED DE DEPARATED DE DEPARATED DE DEPARATED DE DEPARATED DE DE DEPARATED DE DEPARATED DE D	AALHAL 1D: BAUDUS79 SPECIES: O SEX: FEMALE WHUUP: 404 MG/KG HIRIH DATE: 12/05/AS INITIAL WEIGHT: 1/9.0 GRAAS UDARANTINE ID: UB4DU0579 TAIS AMIMAL MAS NUT BEEN WENDVEU PRUM THE EAPERIMENT.	OPERAIOR IGHABASI LLIMICAL ORSERVALIUMS AFIGHT	0042150 255.0 MURMAL		231.0	004225 NUPHAL Antespar	246.0	OUAC252 NUMBAL NUMBAL	00355) NUTAIL NUTAIL NUTAIL NUTAIL NUTAIL		0.00 - 0.				185.0	0035745 147.0 * NU UPSEXVALIUIS RECURDID. Duasiso 193.0 * Nu ubsexvalinis recurded.
7 9				AS I	-			-	-	_	-	_			_	_	-		
A.I IAL LO: BBUNUS78 HIWIW DATE: 12/U5/RS PEMUVAL NATE: 1/51/84	1141		16:07:41 4:53:18 4:63:20 11:05:04	A 1134 10: 44000579 41814 DATE: 12/05/85	11%	80:00:0	14:15:40	0:38:36	4:57:48	0:49:00	36:60:4	15:67:46	11:03:54	9:19:3c	14:44:54	14:59:46	16:08:30	20:04:4	4: 63:40 11:45:34
II IAL IL HIH DAT	0.41	1/31/84	1/51/84 1/51/*4 1/50/64 1/27/84	Albar 10 1814 DAT HIS ANIM	Palt.	6/14/84	2/12/84	C/11/2	18/67/2	70/10/2	2/04/84	44/C2/74	2/04/84	C/U3/84	701/34	1/51/84	1/51/84	1/51/84	1/50/84

464 MG/AG Duaraitive 1D: Uradunsko				MARNEU DUGGEU POSTURE,MAAKED DEPKESSED RIGHTING KEFLEK,MARKEU Ingréased salivation	OUTH MATERIAL			
A 1194L 10: GAUDUSOS SPECIES: 1) SEX: FLMALE SRUUP: 404 MG/NG BIRIM 1681E: 12/US/AS INITIAL MEIGHT: 105.0 GMAAS DUAKANTINE MEMUVAL DATE: 2/U1/R4 TIME: B:DU:32 REASON: DEAU		SENALIUMS .		JED POSTURE,NAKKED DI Alivation	SLIGHT IPHILASE, SLIGHT CLFAR HOUTH MATERIAL	ATIONS RECORDED.	* NO UBSFRVATIONS RECURDED.	* NG UBSERVATIONS RECORDED.
EX: FEMALE 1 155.0 GMA: 32 REASON:		NFIGHT SALE OPERAIDK LOKANSI CLINICAL DOSERVALIVUS	0£4 [H	MARNEU HUMCHEU POSTURI INCHEASED SALIVATION	SLIGH! IPKI	* NO UBSERVE	* NO UBSFRV	* NG UBSERVI
S: D SELENT	520	NF IGHT				174.0	142.0	180.0
SPECIE INITIA R4 TIME	OdSERVATIUNS	PPEKALDK	0035743	0035743	4044404	021500	0035743	0045150
: 04UOUSBS E: 12/US/AS ATE: 2/U1/		11%	2/01/84 5:00:32 0035/43	14:42:20	1/31/Au 12:13:12 6ubyqub	40:24:4	41:46:06	11:08:02 0045150
A . L'IAL 19 HIRIH DATE REMOVAL BE		PAIE	4/11/A	1/31/84	1/31/84	1121184	1/50/94	. 1/27/84

•	GUARAMTINE 10: UB4000591	
404 MG/KG	GUAKAM TINE	
: 64UUP:	SHE	INENT.
FEMPL	150.0	IE FAPER
0 Sex	16 1 Gm T :	FRUM T
SPECIES:	INITIAL WEIGHT: 139.0 GRAMS	LFIU MEMOVEL
84000591	14/05/83	HAS NUT H
A.ITAL 10: 64000541 SPECIES: 0 SEX: FEMALE GRUUP: 464 46/KG	41914 [4Te: 12/05/83	THIS ARIVAL HAS NOT PEFU MEMOVEU FRUM THE EXPERIMENT

287												SLIGH! INCREASED MESPINATION HATE, SLIGHT HYPERA					SLIGHI EXUPHINALMUS, SLIGHT NYPERALTIVE, SLIGHT O	RECURISED.	RECURVED.	RECORDED.
KEIGHT GHAAST CLINICAL DOSEBYAITUND												INCREASEU					EXUPRINAL M	DERVATIONS	. NU UBSEAVATIONS RECURVED.	* No UHSEAVATIONS RECORDED.
TRITUTE	NURMAL	NURMAL	NURMAL	NUMMAL	NURNAL	RUPMAL	NUR 44L	NUKMAL	NURMAL	NURMAL	RURNAL	SLIGHI	NORHAL	NURSAL	NURSIL	NURHAL	SLIGHT	* 20 U.	EO ON *	#3 ?Z
:E16nT 1588-151	263.0				0.60%			199.0					109.0					159.0	154.0	173.0
ROTERSAU	0042150	0445150	0.000357	0049225	0045150	0046252	0035743	6045150	55.5000	0055257	0055237	0445150	0 0 4 5 1 5 0	0045150	0064900	0.35743	0035743	0515400	0035743	0.1421.50
1111	8:33:54	b:42:9	14:17:30	4:30:54	4:02:12	4:00:00	8:39:56	05:95:9	9:15:00	13:49:30	10:45:12	11:06:20	7:47:44	1:35:14	12:54:32	14:46:10	14:17:54	4:42:40	7: CA: 7	11:10:10
LAIL-	C/14/84	4/13/84	e/12/Au	c/11/84	2/10/84	44/07/V	*4/80/2	4/10/2	4/07/A4	c/05/44	£/25/84	2/00/2	4/03/84	c/65/84	K/1/74	1/31/84	1/51/84	1/31/84	1/56/84	1/67/94

.) Sex: JALE GRUUM: RUD WG/KG JANT: 212.7 G4845 HJAMA1TINE ID: WA4DUA455 9.38144 PEASON: DEAU	AFIGATEL CLITAGRALORSERVALINIS Number Haber Active Periods Periods Matricial Administration for the Periods of Periods and Per	NAMENTO GOVERNATE MATERIAL MATERIAL MODERATE TARRY FECES, MODERATE TOTTENT OBSERVATIONS OF A MODERATE MEDICAL MEDICAL MODERATE MEDICAL MODERATE MEDICAL MODERATE MEDICAL MODERATE MODERATE MODERATE MODERATE MODERATE MEDICAL MODERATE MODERAT	1072 FILE AUGIN CAT, MALES, INCHASE, INCHESE TIGGESES STAINE REFLEX, AC.) EIF MATCHIAL, MAKKE) LACHEASED SALVATION, MODERATE AC.) EIF MATCHIAL, MAKKED LACHEASED SALVATION, MODERATE LACHEA MASAL DIAMBRE TO LEAK NASAL DI	SLIGH! INGRESED SALIZATION, SLIGHT GROWN PEKTANAL MATERIAL SLIGHT HYPPRACTIVE Z-5.0 * 75 OF WAY WITHIN STECORDED. 2-5.0 * 75 OF SECORDED. 2-5.0 * 75 OF SECORDED.	SPECIFS: D. Sex: WALF GRUIP: 400 ML/AG 3 INITIAL "Fight: 219.0 GWAMS HUAMA.TINE 1D: URUDUOUS? Been wfmoveu fruit tif Experitcht.		NF19HT 1544.151 CLIVICAL PASCRIATIONS	145.70 NURALL AUTON 0.548.	Tendin D'915	コキャロウル コヤッセファ	SELSAT BEPRESSED BRASHING AREFEK 271.0 Selbat bepressed drashing reflexislight Inactive, selsat Depressed profilms reflex		SLIGHT HYMENED FOSTORE, ANDERATE ROUGH COAT, MARKED RED MONTH STAIN, MARKEDINALLE	SELEME MED ADOUT MATERIAL 59.U = NO USSENVATIONS RECURSE.	246.0 • NU UBVERVATIONS RECURDED.
SPECI INITE A LIM A SERVAL	DEESALUS LE Dubsqua	0.42150	0.035743	6035743 6045158 2 8035743 2	SPECIFS: 1411AL Been Wemove	OBSERVATIONS	51 NOISM328	0400357 0484225 0485150 3		1055237		0045150	647650	0.059406 6.045150 2	
11: 14:14:15:14:15:14:15:14:15:14:15:15:14:15:15:16:15:16:15:15:16:15:16:15:16:15:16:16:16:16:16:16:16:16:16:16:16:16:16:	11.2	0:54:50	4:10:30	10:43:34 3:44:04 3:25:54	AL IN: 54080859 H PaTe: 12/12/85 AVIMAL HAS NUT		1871	14:00:5¢ 9:06:5¢				4:15:90		20:10:10:	
# 1		4 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1/01/84	1/51/84 1/51/94 1/51/84 1/67/84	101 140 14 15 15 15 15 15 15 15						A/62/24 A/63/74	2/02/84 5/51/84		16/16/1	
1				•								App	pen	dix	E-41

	BUARANTINE IN: WA4DU0465	
600 NG/KG	GUARAGT LITE	
WALE GRUUP:	5.0 GAA 4.S	EXPEKIMENT.
PEF1ES: 0 SEA:	MITTAL AEIGHT: 219	I KENOVEU FRUM THE (
A. 1 14 10: 44000405 SPEFIES: D SEX: WALE GROUP: 600 NG/KB	ALMIN DATE: 12/12/85 INTITAL ACIGNT: 215.0 GAAAS	THIS T'I'M, MAS NUT BEEN KENOVED FRUM THE EXPERIMENT.

PUSERVATIONS

स्ताराङ												E STAIN, SLIGHT DEPRESSED GRASPING PRFLEX	SELIGHT REU GOVE SIAIN			ARAKEU KOUGH LOAT, MUDRANTE INCREADEU OTARILE KERLEK, MUJEKAIE IRRIIAALE,	SELECT AEU MOUTH STAIL-SELEGHT CEFAR NASAE BISCHARGER, SELEHT EVANOSIS	SEILEMI AFU APUTH STAILS SELEGAT UEPAESSED GRADANG AFFLEX	PAS RECURVED.	NU UBSERVATIONS RECUNNED.	
EAULIFYERSON TERMINAL CENERGY NULLER STANFORD	NORW 1	NURHAL	NURAL	NURIAL	NURAL	NUDHAL	NURWE	NURMAL	SLIGHT IRAITAGE	NUNNAL	NURMAL	SLIGHI REU "OS	SLIGHINEU 405	NUR-48L	MURRAL	TARKEU KOUGH LI	SLIGHT AED MOUT	SLIGHT AFU 4001	. YO UMSEAVATIONS RECORDED.	. NU UBSERVATIO	* NO UMSERVATIONS RECURDED.
1584351 L	345.0				340.0			345.0					205.0						257.0	0.516	743.0
Detailor	0445150	1142130	6000357	0.44265	0445150	0.142.32	0035743	045150	11042257	1,05,527	1454549	0.400	0045150	0.45150	0035743	0033745		4014400	0.4451.50	0035743	0 6 4 5 1 5 0
	5113113	1:54:30	14:03:00	4:00:50	44 . 6 2 . 0	46.50.2	25:11:0	3:12:64	45.62.5	15:62:30	10:54:35	11:17:01	9:10:55	9:00:00	4:14:FB	13:56:51		1/31/34 14:34:52 6454406	70:47:5	41:11:2	10:12:14
	40/01/2	F4/21/2	*1/1/2	2/11/2	** / 11 / 7	44/67/2	28/52/2	c/17/54	1×140/2	c/uS/84	£/12/17	44/60/2	=/c3/84	2/02/P4	c/11/44	1/31/**		1/31/44	1/31/84	1/30/#4	1/27/84

a.Ival 10; bgududang SPECIFS: N SEX: Jale Ggudp: Rud Myzki Alaim date: 16/12/As lullaa. Keight: 205.0 Gaans Guanauliue IN: U84Du0469 Aemuval Date: 6/01/84 IIAE: 11:59:12 9easom: Debu

OdSERVA! IUNS

			SCIGHT SOULVIING, SCIGHT ROUGH COAT, MODERATE IMRITABLE, MODERATE		SCIEMI JUAPING, SCIEMI HYPERACIIVE, MODERATE DEPRESSED GRASPING REFLE	UEU.	.iEu.	
- PAIR IIME - OCEMAIOM MANANA LLIMICEL OASERMAIIUMA	DEALH	MUAIFUN	SLIGHT SQUINTING, SLIGHT	INCAFASED SALIVATION	SLIBMI JUAPING, SLIBMI IN	1/31/44 9:44:24 0045150 223.0 * NO UHSERVATIONS RECURDED.	A THE CHOSTAVATIONS RECORD	COLUMN CONTRACTOR DECISION OF THE
Lina ANS						243.	204	376
DEEMAION	0067816	0035743	0.35743		0.135743	0045150	00.55745	40.00
111	11:96:16	4:c1:50	1/31/84 13:34:12		10:36:50	1/51/44 9:44:24 0045150	6:42:34	
315		2/01/2	1/31/84		1/31/44	1/51/44	1/50/34	

					SETURE ROUGH LOAT, WARNED BEUN, PERTANEL MATCHIAL, SLIGHT ALD NOHH HATCHIAL, SLIGHT ROUGH LOAT, WARNED BENN, PERTANEL SLIGHT RED MOSE MATCHIAL SKLIGHT RED MOSE MATCHIAL WARNED LOAT, HOVERALE OLTANHEA, HODGEATE INCREASED STARLE NEFLEX, WARNED LANTIAULE, MODERALE SCO. HOSE STAIM, MODERALE DEPRESSED MIGHTING MEPLEX NOTANEL ME OHSERVATIONS MECUALED. * NO UNSERVATIONS MECUALED.	1845u048o	LATALABERYKAIAUNS Death Marke I juckeased Staffee Keflex, Scient Knug-1 cart, Scient Keu nasal uischambe, Sient upaabe muuit staja, Scii-ti keu eye aaieatal, mudeate Depaessen Ricating meflex, ambneu depresse upasata, Beflex Selant irrigate, beginst Depaesse Grasping meflex
	JERTHEL CLICAL DESCONALIUSA	SLIGHT JIMRHEA BURTAL BURTAL	4447AL SLI441 14411AALE SLI641 14411AALE SLI641 14411AA1E SLI641 14411AA1E	MURAAL SLISMI 18411ABLE Muraal SLISMI ADUGM CDAT	NUTURE MOUGH LOAT, WARNED DROWN PER SELECT MOUGH LOAT, WORKED HE WARKED MOUGH LOAT, HOVERATE OTENHER MARKED MOUGH IT HOVERATE OT 10.9% MARKED MOUGH IT NOT 10.9% MOUGH IT NOT	OPECIES: 1) SEX: 44LE GRUIP? BUO ML/AG INITIAL "EIGHT: 142.0 GRAMS (IMF: 18:04:24 REASON: DEAU ERVATIUNS AFIRMY	JI .
51,1	3F 16HT 1684321	350.0	3.41	237.0	u . sa s s . sa s s s . sa s s . s s . sa s s .	Prcies: 0 Scr. Vittal "ElbHT: Time: 18:04:24 9valiuvs	7000 90
CODE TANKEDER	, भत्राच्या उन्न	0.45150	00000557 000042745 00042745 000403150 0004032	0.040150 0.04050 0.04050 0.05050 0.05050 0.05050 0.05050 0.05050	10.459405 10.430745 10.30745 10.430745 10.420130	7 80	003743 0153743 0153743
	1155-		0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		A 2 3	15:29:20
	3aIs	2/14/34	## # # # # # # # # # # # # # # # # # #	1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1/21/24 1/31/24 1/31/24 1/31/24 1/43/24	IMAL 10: REH DATE MUVAL DA	1/31/84

144 SPECIFICS IN SEXT HARE GROUPT BOOK STATE INTO URADICOAGY SYAS INTERL ASIGNT: 160.0 GRANG QUARANTINE INTO URADICOAGY (SIZE: 16:26:50 REASON: DEAU	OSSERVATIONS	Urtablük ibkansı illidicəl Duskpyallumla	SU NUASTAS DEALM IS OUAYAUS WARRED INCREASED STAPILL MFFLEX, MARKED SCHMULENCE, MMRKED ROUGH (DAI, MODERATE INCREASE, DELEVALIEM INCREASED ASSAL DISCHARGE, MODERAIE LICKEREN PERFITAITURE METE, SLIGHT INITIAL	0.435743 0.465150 0.035743 0.455150 0.455150	A.I.AL IN: 64J.40511 SPECIES: O SEX: MALE GRUUP: 600 MG/KG AIVIM DATE: 16/12/83 INITIAL WEIGHT: 1/9.0 GMAMS This animal has not removed from the Eaperiment.	Oaservatiums	WEIGHT WEIGHT DOSEBRAILWIN	0445150 293.0	OUSTRO SCIENT INACTIVE	0044265	0.405150 201.0 40484L 8 0.46252	6435743	0.45150 254.0	0.55.57	'R 4-55237 SLIWH! INACIIVE 14 0-45130 SLIWH: IMACIIVE-SLIWH! DEPARSSEU KIUMII4G REFLEX,SLIGHT	0.000	0.45150	0051405	0.35743	0.45143	0.33743 224.0 0.43150 204.0	
12/12/43 12/12/43 := 1/51/8.	ć	₩	16:48:50 0. 14:04:15 0.	11:11:12 00 4:51:70 00 6:53:00 00	.4J.40511 16/12/83 HAS NUT HE	00	-110t- 22		4:09:54 0v		70 74:64:6		6:50:75 0		0:59:26 to:0			NO 90:5t:Tl	14:13:50 Au	11:18:14 02		
1717 - 1717 - 1707 - 17		316	1/51/84 10	1/51/84 11	A.154L 10: 88040511 31914 DATE: 16/12/85 7415 ANIMAL MAS NUT P		-Pale		C/13/84 6	•	6/10/44 0		9 74/20/2	_	A/05/84 10				1/51/84 14	1/31/84 11	-	

SPECIES: 1) SEX: MALF GRUIM: AUD MUXKG INITIAL AEIGHT: 173.0 GRAIS (UUARAITINE 1D: URANDUOSIS [1867: 7:46:47 REASON: DEAU		GEESTIGK TEKSASI CLIMICAL DaseRvaliuda	DEAIM MARRÉ INCPEASEU STAPILE MEFLEX,MARNEU TMITCHING,SLIGHT RUUGH CUAI,SLIGHT RED FTE MATERIAL,MARKED GLEAR MASAL DISCHARGEF,HARREU INCPEASEU SALTVAILUX, SELTUHI SOUTITIEUSMARKEU TCLLOW PEMIAMAL STAIN,MARKEU	STATES OF STATES AND ACTION OF THE STATES AND THE STATES OF STATES	MUDE WATE MYPERACTIVE, SLIGHT INNITABLE	◆ ぶし しょしき オイトイトラング REPしましたし ◆ NJ ごよりきスケチエ SDEV REPしましたし	* NJ CHESETURATIONS RECURDED.	FEMALE GRUIN: AUG MISSIG 49.0 FRAMS READOW: DEAU		פורען אפרנין אפרנין אפריין אפרנין אפרני	NEATH MMORPHE AVERACTIVE, SLIGHT RED HASAL DISCHARGE, SLIGHT	PERMISHING OFFICE AND
(5: 4) N. AEIGN	luts.	ae 16m7 Lekaus 1				265.0	905.0	. "E16nT	32	MEIGHT LEGAREI		154.0
***	OBSERVATIUNS		0.43150 6054405	0435743	0.35743	0 4 2 1 5 0	0045150	SPECIE: 14111AL 64 ITAE:	OSERVATIONS	י אפרטיישאה	0035743	0.45150 0035743 6.45150
A. 1. 4 L. 11: 04040515 Ajvin nate: 12/12/85 Henval Date: 2/02/84		127	11:51:00	1/31/A4 4:16:40 0035743	11:41:22	4:35:36	10:54:14	24000531 16/20/83 E: 1/31/		3311	14:10:26	7:54:00 7:0/:64 10:43:44
A LE-BLA A Le-BLA Terminate Bandung			オモノーマンソ	1/31/84	1/51/44	7-/-5/1	1/67/24	A. Hate 10: Edubu551 SPECIFS: U SEX: High Gale: Texus/Ks Talliae AEIGHT: T Recoval Date: 1/51/84 TME: 14:10:en		4.5	1/31/44 1	1/21/27

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	2 7 6	i	
		t	4
4 t	3 4 5 5	-	SPECIE
20	200		3
2 S	3 17 3	ı	

a.i.al ii: ouuou530 SPECIES: D SEX: FEMALE GRUIP: 600 Mb/RG Rigim Ibale: 12/05/85 Imitial meight: 1/4.0 Gwams quaramtine ID: wawquo550 ye.cvm. Dale: 2/02/84 IIMF: 13:42:50 Reason: Physical armummality

	CLINICAL DASEPVELIUSA	MISCOURCE REMOVED FROM STORY A NO URSERVATIONS REFORDED.	* NU UBSERVATIONS RECURUED.
nE16HT	18वक्वडी	106.0	210.0
	DEEKA19K	0065406	0035743
	148	15:42:50	4:11:54
	=74	44/60/2	1/20/84

	1 - LLIMISAL-DuseBralluds	NEW ALTERNATION AND ALTERNATIO	_	-	20.53.4F			JAMACO S	SLIGHT HYPERACTIVE, SLIGHT INCHFASED STANTLE REFLEX		NURSAL.	OF THE TRAILING THE TRANSPORT OF THE TRANSPORT OF THE TRAILING THE TRA	NETICAL REDUCT CERTANDERRALE LANGUERO, DELICAL EXIME ROCCERTE, FOUNTABLE INCOMPANIO PROSETABLES RATE	SLIGHT HYPERACTIVE, SLIGHT PER HASAL DISCHARGE, SLIGHT	<u>.</u>	•	•	* NO UBSERVATIONS RECURDED.	SEX: FEMALE SRUUP: 600 Mc/AS	161.0 GRAMS		CLINICAL DASERVALIUS	0t.41H	MURINUMMODERALE CUPMEAL DYACTIV, SLIGHT CHKONODACRYONRHEA, MAAKED	INCHEASED SALIVALIBAT RED HASAL DISCHARGE, SLIGHT DEPRESSED GRASPING REFLEX	
220	KF 16HT 1583/131	200.0		149.0		141.0				162.0						147	104.0	154.0	SPECIES: 0	1111AL NE1GHT:	IONS	RE IGHT				
UBSERVATIONS	MATER 3 TOR	0.42150	0.47245	0042120	0.46252	0045150	0044252	7555730	0.42150	0.45150	0.423150	0.64406	924470	0432743	•	0.45150	0033743	0.42150	SPECT	2	OdSERVATIONS	RESEALUTE ISKAMSI	0035743	0069406	0035743	
="	111	8:39:4c 8:19:0b	_	_	30:34:04:0			13:67:44	_				14:64:20	11:41:04				10:20:10	A.11-44 10: 80000554	BARIN BATE: 12/05/AS REMUVAL DATE: 1/51/84		-1114	13:42:56	14:58:48	11:43:54	
	3180	C/18/84 C/13/44	C/11/84	2/10/A4	18/53/7	54/13/2		40/50/2	•		2/12/12	c/u1/84	1/21/84	1/31/94		1/31/84		1/67/84	141.44L 10:	MUVAL DA		Dale_	1/31/84	1/31/84	1/51/84	

	QUARAITIBE ID: GRADOUSSO	
A.1.4L 10; 8400858 SPECIFS: 1) SEX: FEMALE GROUP: 600 ME/AG	OUARAUTIVE	
ï		DEAU
FLMALE	AIRIT "ATE: 12/05/AS INITIAL "EIGHT: 157.0 GKANS	9E A 5(0),
) Sc X 3	6 1 6,11 :	14:14:00
SPEC (FS:	INITIAL	1 IME :
80500	2475073	1/51/84
. 10; 840	" "Alt: 1c	AL HATE:
A. 1. A	1127	46.34

OdSERVATIONS

			REFLEX			
			GRASPING			
			UEPRESSEU			
			SLIGH! HYPERACTIVE, SLIGHT JUMPTHG, SLIGHT DEPRESSED GRASPING REFLEX			
	7117		/E, SLIGHT Ju	RECORDED.	* NO UMSFAVATIONS RECURBED.	S PECURUEU.
	OPERALUK IGKAMSI ELIMICAL DASERYATIAN		HYPERACTIV	* NO UBSERVATIONS RECURVED.	SUCTENATIONS	10%.U . NO UMBENYALLONS RECURDED.
:	#31K11	OLAIH	SLIGHT	≥ ×	ر ج د	02.
AE LGHT	TERFEST			155.0	1/5.0	104.0
	DEE A LUK	0032743	0033743	0442150		0082130
	1	14:12:00	1/31/84 11:45:20	4:59:34	7:15:00	10:53:00
	181	1/51/84	1/51/84	1/51/84	1/50/84	1/27/84

A MIMAL ID: BUNDEDU SPECIÉS: O SEX: FEMMLE GRUIP: BUO MG/AG HINIM DATE: 12/05/83 INITIAL WEIGHT: 16%,O GHAMS This animal mas nui befix kemivéd from the experimeni.

0.4SERVATIU'15

														IN KATE		INEMATE THEREASED STARTLE REFLEX, MODERATE THE 4045,	MODERATE MED MOSF SIAIN, MUDERATE MED MOUTH STAIN, MODERATE YELLOM PEATANAL	M.	SLIGHI KOUGA CAAT, MARKEU IPWIIABLE, SLIGHT YELLOA PEWIANAL SIAIN, SLIGHI		SCIENT DEFAUSSED GRASSILG REFLEX, SLIGHT MYPERACIIVE			
	44													ESPIRATIF	TAIL	OSTURE	SIAIN, HUF	TE MAIEN	MARKEU 15		RASPILLS F	RECORDED.	RECUPUEU.	RECURUED.
	la SERVALIU													SLIGH: INCREASED RESPIRATION MATE	SLIGHT REU MOUTH STAIL	TUNCHEU T	RED MOSF	LOH! NED C	JUGH COAT,	ır	FPRESSFU 6	ENCTIONS	NU URSERVATIONS RECUPUEU.	* No UBSERVATIONS RECURVED.
	TESTATES	NURHAL	NUR:14	NURWAL	7¥t-αrìN	1418 14L	NCP.4AL	NOK: AL	となると	MURMAL	NURSAL	NUMMAL	NURMAL	SLIGH! 1	SCIGHT R	MUSCHATE	MUDERATE	SIAIN, SL	SLIGHIR	TAIICHIGG	SLIGHT of	* NC UBS	* NC URS	* Nu u8s
1 PM -	1544251	244.0				251.0			215.0				•	183.0								1/4.0	193.0	140.0
	DZEKALUK	0042130	0.45150	0000357	0047225	0045150	0042252	0035743	0045150	0046252	0.55257	0055257	0042150	0045150	0445150	424440			9035743		0032743	004,31.50	0435745	0.4.1.0
	1441	90:67:9	3:41:20	14:16:22	76.75.5	8:56:30	8:34:7¢	0:54:40	8:45:54	4:40:4	13:49:16	10:43:50	11:02:24	4:13:54	1:45:4	12:14:12			1/31/84 14:52:56 0035747		11:53:48	10:11:00	4:18:02	1/27/Au 14:57:42 Auf-140
	DAIE TIME DEFENDE LESANSI CLIMICAL DESERVATIONS	4/14/54	2/13/84	C/12/84	2/11/84	44/01/2	**/60/7	2/03/P4	オイノレクイン	2/06/A4	4/07/84	4/02/84	24/40/2	C/03/A4	サピノご ハン	4/10/2			1/51/84		1/51/84	1/51/84	1/50/84	1/37/84

A.FARL 10: BBDDD5A9 SPECIES: D SEX: FLMALE BRUUM: BUO Mb/KG HI9TH DATE: 12/US/83 IVITIAL REIGHT: 106.0 GRAMS GUARAHITHE ID: UB4DUD369 Remuval Date: 2/U2/84 [IMF: 15:41:22 REASON: PHYSICAL ABNORMALITY

ERVA (IUNS

	डार	FROM STUDY	PLCURUEU.	Recuanto.	RECURDED.
	LLINICAL OUSERVALIUUS	MISUOSEU, REMUVED FROM STUD	. HU UMSERVATIONS	* NO UBSERVATIONS	* NO UBSERVATIONS
_ HUT	रहार अनुभ		1.051	1 34.0	164.0
	QUESA IOK	0069406	0045150	0035743	0045150
	-1116	13:41:24	10:02:24	9:19:42	10:59:22
	PAIE	2/U2/A4	1/31/04	1/30/44	1/27/84

A.194L ID: BBDOUSJA SPECIES: D SEX: FCMALE GRUDP: 600 MG/KG HIP!H DATE: 12/05/RS INITIAL WEIGHT: 171.0 GRAMS AUAKAMITURE 10: UR40003574 PEMUVAL DATE: 1/51/84 IIME: 14:37:32 REASOM: DEAD

OdSERVATIUNS

	GRASPING REFLEX
	UEPRESSEU
neight Operaluk igkamsi Clivical Observaliuns	DEATH SEIGHI CLEAR MOUTH MAIGHIAL, RLIGHT DEPRESSEU GRASPING AGFLEX ** NU UNSEKWATIONS RECURNIO. ** NU UNSEKWATIONS RECURNIO. ** NU UNSEKWATIONS RECURNIO.
NEIGHT LGKAMSI	174.0
DPENALDK	0053743 0064406 0043150 0033743 0045150
TIME	14:37:32 12:05:32 2::03:32 4::01:53
1100	1/51/84 1/51/84 1/51/84 1/50/84 1/67/84

OBSERVATIONS	OPERALDIR IGRAMS, CLINICAL DUSERVALIUMS	0045150 223.0 HURHAL	•	-	6,45150 214.0 NURMAL	_	~	209.0	_		0.05 (22) SLIGHT DEPRESSED GRASHING REFLEX	0045150 SLIGHT DEPPESSED GRASFING REFLEX	UU43150 180.0 SLIGHI HYPEHACTIVE, SLIGHT INCHEASED STAFLE HEFLEX	0.45150 NURAAL	COSSAGES MUDERATE AGGE COAT, MUGERATE MEU NOSE STAIN, SLIGHT MEU AGGERTAL, MEU MUDERATE (PEMBRS, SLIGHT VELLOM PÉKIANA STAIM, SLIGHT AGG EYE MATERIAL	0033743	COBST43 SEIGHT LUMPING SEIGHT PROFESSEU GRASPING MEFLEX	169.0	0033743 143.0 * NU URSEXYATIONS PECURUEU.	
CHSERVATION	OPERALUR LE		0.000357	0044505		0046252			0046252	0055257	0054257	0042150		0045150	0067406	0035743	6035743			
	1111	05:00:50	14:15:50	2/11/84 9:37:18	47107P4 6:58:54				C/06/84 4:10:14	4/05/A4 13:44:50	Z/U5/R4 10:44:20	2/04/84 11:03:40	27.03/84 4:50:62	27.82:4 4.50/2	2/01/84 16:45:30	1/31/84 14:40:32	44:00:21 48/15/1		1/36/84 4:44:14	1/27/84 11:06:10

		-00-) Б. А. 1 F. -41 J. E. A. 1 E. E.					(50					.44KKEU	
	AEIGHT AEIGH 1854AISL LLIUASCAL Duschwallums	DEATH MARKEU IRMITAULE,MUUFRATE CAPUMUDACRYUPRHEA,MARKEU LORNEAL UPACITY,MUUFRATE CLEAR NASAL DISCHARGE,SCIIGHI INCREASEU SALIYATION,MUUFRATE IRLUGS,MUUFRATE TOTGEASED STARTLE REFLEX,MUUFRATE DEPRESSED RIGHTING AEFLEX,MUDEPATE RUIGH CUAI	* NO URDEAVATIONS RECURBED. • NO URDEAVATIONS RECURBED. • NO USSEAVATIONS RECURDED.	MALE GRUUP: 775 MG/KG 15.0 GRAMS Reason: Deau quaraïtine 10: ub40u0462		DECEMBER SERVICAL DASERYALIUMS	NEGATA Mudekate, Iremussianderaie, talicalingi, mouekaie Red ete Material, marked Tangae, ean ivat nos milemaif Rudum Cuat	SLIGHT UEPPESSEU GRASPING REFLEA * NO UBSEAVAIIONS RECURVED. * NO UBSERVAIIONS RECURVED. * NO URSERVAIIONS RECURVED.	MALF GRUUP: 775 Ma/KG 40.0 GAANS DUAMA;111te ID: GRADUGA7a Measom: Deau		clinical gaseraliuma	DEBIH Mujerate kough Lobi,Markeu jjereajeu salivalion,Muderate Cleba Masal Distrable:Voodere jarakkela,Yarkeu Dippresseu kighling geflex,Abakeu Alogeseu carrolli	SLIGHT HYPERACTIVE, LIGHT DEPARTSED GRASPING METLEX NO UPSERVATIONS RECURSED. HOUSENATIONS RECURSED. HOUSENATIONS RECURSED.
	<u>00-9437879</u>	DEATH SARKEU LRK CLEAR NASH IGCKEASED RUCH CUAL	* NO OBOFA * NO OBOFA * NO OBSFA	~		CL191CaL_0;	MUNERATE	SLIGHT OF	<u> </u>		כר למזכיים:	DEATH WIDERATE NASAL DISC	20 CBU
SNOIIONS	4E 16HT 15dA:151		214.U 214.U 246.U	3 5	E C N S	.F16HT Lekansl		25.0 25.0 250.0	PEC1ES: D SEX: VITIAL NEIGHT: +168: 17:56:44	LUMS	AE 16HT		213.0
USSERVATIUNS	PETTEZAN	0035743	0045150 0045150	75~4 £	GUSCRYALIUNS	DELSALOK	0033744	0035743 0045150 0035743 045150	7	USSERVATIONS	PEKANION IGHANSI	0035743	0035745 0045150 0035745
	1271	17:52:04	- 1	A.T.AL 1): BAUGUAS? HIR.H FATE: 12/18/63 REGOVAL SATE: 2/01/84		1125	0:01:50	10:52:54 10:06:54 #:59:20 10:09:50	ALIMAL 10: DOUDUTE HIRIH DAFE: 12/12/93 HEYDVAL PATE: 1/31/84		-1811	1/156144	11:00:26
		1		A.Inal 17: caudunss Alqim Pate: (2/12/6 Regoval cate: 2/v1		1415	6/11/34	1/51/54 1/51/84 1/50/84 1/67/84	ALIMAL 10: GOUGUATR HIRTH DAFE: 12/12/9 HEYGVAL PATE: 1/51		Pale	1/51/24	1/51/94

UA:12		크	NEIGHT ASKATISZ CLAJÁCAL DASERMÁLLUND DEATH MARRED DOWNULENCE, MAPNED TREJURD, MODEMATE IMACTIVE, SLIGHT OEPWESSED PAGHTING MEPLEK, MARRED IMCPEASED MESPLHATION MATE, MUDERATE MODEMATE MATE, MUDERATE MESPLHATION ANTE, MUDERATE MESPLHATION BOSED NONEMATE MYPEMALTIVE RECARDED. ROUNDERATE MYPEMALTIVE RECARDED. ROUNDERATE MYPEMALTIVE RECARDED. ROWNUMBEMATIONS RECARDED. ROWNUMBEMATIONS PECUADED. ROWNUMBEMATIONS PECUADED.
4.1.46 10: 50000407 91214 0-16: 16/12/85 8250041, 0-11.: 6/01/84		SPECIES: D SEX: INITIAL WEIGHT: TIME: 8:05:04 ERVATIONS	SPECIES: O SEX: MALE GRUUP: 7/5 Mb/AG INITIAL WEIGHT: 191.0 SMAAS DUAMANTINE ID: WAADUOAR? TIME: 8:05:04 REASON: DEAD
1135 0:05:04 0:19:10	0.35743	4516HF 1 15k8AS1	AFIGHT AFIGH 15MBAS2 ELIMAGAL DESERVATIONS 0.337743 NARREU INACTIVE, MUDERATE IMEMORS, MARKED INCHEASED MESPIMATION RATE, HODEMATE 0.235743 NARREU INACTIVE, MUDERATE IMEMORS, MARKED INCHEASED MESPIMATION RATE, HODEMATE MASSAL DISCHARGE, MODEMATE IMPROVED EN ENTERTHANDE MEDICAL MODEMATE MED
11:05:30 fu:10:26 d:49:16 10:20:42	0053743 0045150 0053743 0043150	205.0 240.0 217.8	RUIGH COAT NORRAL * NO UBSERVATIONS RECORDED. * NO UBSERVATIONS RECORDED. * NO UBSERVATIONS RECORDED. * NO UBSERVATIONS RECORDED.
AJKAL IV: OGUVUSU3 HIRIM DATE: IC/12/NS KEMUVAL DaTe: Z/VI/A,	3.4	SPECIES: O SEXT INITIAL WEIGHT: TIMF: A:OS:48	SPECIES: O SEX: JALE GRUIP: 7/5 ML/AG INITIAL KEIGHT: 179.0 GRAAS QUARANTINE ID: URADUOSOS [TAF: R:09:48 REASON: DEAU
121	<u>Orenalon</u>	"FIGHT LGKANS1	-climeralal odsrbyatoms
15:25:00 0035743 15:15:00 0035743 11:15:40 0035743 10:11:04 0045150 0035743	0035743 0035743 0035743 0445150	0.84	DEATH SLIGHI MOUGH COAT, SLIGHT WED MASAL DISCHARGE, SLIGHT INCHEASED SALIVATION SLIGHT MYERACTIVE, SLIGHT RED MASAL DISCHARGE * NO UBSERVATIONS RECURDED.

SPECIFO: 1) NEX: MALE GRUUP: 7/5 Mi/AG 3 1/4T1AL AFIGHT: 175.0 GRAMS HOBMANTINE 10: 484000510 /B4 1[-f: 14:07:50 Arason: Drau 0.58494AT10*35	NFIGHT AFASHSI CLASACAL DUSESVALIUNS	60.33743 NEATH OU.33743 WAARE JALPEASE STATILE METICX, MADRED FAITCHING, MARKED INRITABLE, MARRED OU.33743 STEPHINTERALTIVE, SELD SALIVATION, MARKED INEAM MASAL DISCHARGE OU.33743 SALGHINTERALTIVE, SELDHOFT, OPPRESSED GRASPING METLEX OU.33743 SALG NO UNSERVATIONS RECUMPE OU.33743 CALG NO UNSERVATIONS RECUMPE) SPECIES: D SEX: MALE GRUIP: 7/5 MG/KG 13 INTIAL WEIGHT: 170,0 GMAMS QUAKANTINE ID: UB4000520 1/84] LME: 14:50:U4 REASON: DEAU	0.55ERVAII 0.435	OPERAION IGRAMSI LLIVIEAL DUSERYALIUNA	0033743 DEATH COASTAS SELUMI NUCHEU POSTURE, SLIGHT FARITABLE OUGSTAS 1470 * JU UASEAVATIONS RECURBED. 0043743 ZAL.0 * JU UHSERVATIONS RECURBED. 0043150 149.0 * JU UHSERVATIONS RECURBED.	SPECIES: D. SEX: MALE BRUNP: 7/5 Mb/AG 1 INITAL WEIGHT: 212.0 GRAMS COMMANTINE ID: WR4DVOSZI PA IINF: R:07:07 PLASON: DEAD	0.5SERVAIIU 15	AFIGATOR ISRANSI LLIVICAL DASERVALIVAS	0033743 PARTEL MOUGH COAT, WARAFEL IMITCHIO, SLIGHT CLEAR NASAL DISCHARGE, MUDERATE	Oubyguh Increaser art and investignt of the solution of the so
~1 ~	क — क्वा	14:56:40 11:17:16 10:11:56 10:11:56 10:27:06 10:51:18	a4v005<0 1 12/85<br E: 1/51/84	0	1136- 00	11:58:04 00:10:10:10:10:10:10:10:10:10:10:10:10:1	540AUS21 12/12/85 E: 2/U1/84	Ü	13 - 15.TT	0:07:02 0.	11:E4:54 0. 10:13:14 0. 7:02:04 0. 10:57:24 0.
A.[A1c 10: 64000510 HIDIM DAIR: 16/12/R MR'40VAL DAIR: 1/51	- Halk-	1/31/84 1 1/31/84 1 1/31/84 1 1/31/84 1	4 viral in: d4u0u520 91814 nate: 12/12/8 Remuval nate: 1/31		neit.	1/51/54 1/51/54 1/51/54 1/50/94 1/67/54	ALTIAL IN: 540AUSSI ALTH PATE: 12/12/8 PETUVAL DATE: 2/01		1141	1/31/24	1/31/84 1

	DUARALTINE ID: GRADUOSS4	
7/5 My/AG	DUARA.ITENE 1	
		PEASON: DEAU
SPECIFS: 0 SEX:	INITIAL NFIGHT:	1146: 14:59:42
4.1 . 10: 04000524 SPECIFS: 0 SEX: FEWALE GROUP: 7/5 My/AG	41-1- (-TE: 12/05/85 12/114L WFIGHT: 104.0 GAA45	PURGVAL HATE: 1751784

DISERVALIU15

হার	RECURVED. RECURVED. RECURVED.
************************************	UCALIA VORANAL * KJU UBSEKVATIONS RECURDED. * NU UBSEKVATIONS RECURDED. * NU UBSEKVATIONS RECURDED.
19312113	00 A 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
3F 16HT	170.0
मता इष्ट दुनत	80.30743 80.30743 80.40743 80.40743 90.40743
1111	/31/84 14:39:42 10:33743 /31/84 11:77:12 00:33743 /31/84 10:13:43 00:43733 /30/84 41:36:04 00:85743 /27/84 10:38:20 00:85130
Tra	(5) / B () / S () /

A 1. N. 1D: BOUDUSCH SPECIFS: D SEX: FEMMLE GOUIP: 715 MG/KG AIFIM DATE: 12/US/AS INITIAL BEIGHT: 178.0 GMAHS GUARABITINE 1D: WAGDUGSSO MERCUSL DATE: 1/SI/MH IIME: 14:09:26 REASON: DEAU

OBSERVATIONS

	- Jaic - Time - Oregaion israms) Charlea OaseRrelluns		AUDERATE HYPERACTIVE, SELIGHT RED NASAL DISCHARGE, SEIGHT	D GRASDING RETLEX	EKVATIONS RECUMUED.	1/50/44 Vicates 0035745 205.0 + Vo UNDERVATIONS PROUPED.	FRVATIONS RECURSO.
	-18316713	06219	MUDERATE	DEPRESSE	* '4U UBS	4 YC UHO	* NO 0.85
3F . 3HT	1588851				177.0	205.0	0.07
	04E 44 10a	0035743	0035743		0042150	0035745	0.45150
		1/51/44 14109126 0035743	1/31/Ft 11:24:34		77:41:01	4:04:40	10:39:30
	2416	1/31/4	1/51/64		1/31/94	1/5/144	1/67/4

Awiral ID: 640005)3 SPECIES: 1) SEX: FEMALE GROUP: 775 MG/AG Birim Mate: 12/05/83 Initial Weight: 161.0 Grams Removal Date: 1/31/84 [186: 14:27:40 Reason: Dead

UdSeRVATIONS

MEIGHT Oresiod igranel thiùic_{al Ob}servalluus

1341

"AATE

LIGHT VEPRESSEJ GRASPING PEFLEX
DEATH SLIGHT JUMPING, SLIGHT IRRITABLE, SLIGHT DEPRESSEU GRASPING REFLEX 190.0 * NU UBSEAVAIIONS RECURDED. 210.0 * NU UBSEAVAIIONS RECURDED. 202.0 * NU UBSEAVAIIONS RECURDED.
140.0
0633743 0033743 0043150 0033743 9083150
1/31/54 14:27:40 1/51/54 11:42:40 1/51/54 10:16:00 1/50/64 10:13:30 1/27/64 10:31:25
1/31/94 1/31/94 1/39/84 1/39/84

leave recover exercise sections resident reserved

1/11 14 14 15 16 16 16 16 16 16 16

155.0

9033744 0,43130 0,43745 0,43130

11:25:10
10:14:26
7:14:20
10:54:10

1/51/84 1/51/84 1/5³/²4 1/2⁷/44

0035743

14:53:54

6/01/84 1/51/84

OCATH
MARKED HUSTURE, POSTURE, PARKED TACKEASED PESPIRATION RATE, MARKED TREITABLE,
MUDERIE URING ARUDHER
SLIGHT IRMITABLE, SLIGHT HYDERACTIVE, SLIGHT KEU NASAL UISCHARGE
* NO UMSERVATIONS RECURPE...
* NO UMSERVATIONS PECURPE...
* NO UMSERVATIONS PECURPE...

SPECIES: U SEX: FEMALE GROUP: 7/5 MG/KG INITIAL AEIGHT: 10%,O GRAMS GUARANTINE ID: URADUUSAS IIME: RIUZ:28 REASON: DEAD

OPENATOR ISRADIS CLIMICAL DESERVATIONS

UUSERVALIUNS

A.1744 IN: 6400565 BIRTH DATE: 16/05/85 REMOVAL DATE: 6/01/81

JVECIES: D SEX: FEMALE SOUT: 7/5 MOTAGE INTIAL MEIGHT: 1/6.0 GMANS DUARANTINE ID: WB4DU0575 11ME: 7:58:30 PEASON: PEAU	CLLMICAL DASCRIALINGS DEALH MUDCHATE IRMITABLE, SLIGHT RED MUUTH MATERIAL, SLIGHT RED NASAL DISCHANGE, SLIGH! UEPRESSED GRASPFING REFLEX * NU UBSERVATIONS RECURDED. * NU UBSERVATIONS RECURDED. * NU UBSERVATIONS RECURDED.	SPECIFS: D SEX: FEMALE GRUIP: 175 MUJAG INITAL MEIGHT: 1/1.0 GRAYS DUARANTINE ID: UM4DUDSHB TIME: 14:55:46 Reason: Deau	IGRAMSI CLIMICAL DRSEPMAINUS IGRAMSI CLIMICAL DRSEPMAINUS DEATH MARRED HUNGHED FOSTURE, MARKED TRITCHING, MARKED WASPING, SLIGHT WEN NASAL DISCHARGE, MARKED INCREASED SALIVATION, MARKED DEPRESSED GRASPING REFLEX, RUDGATE WENDERSSED WITHING REFLEX SLIGHT INACTIVE, SLICHT CLEAR MOUTH MATERIAL 174.0 * NU UMSERVATIONS RECORDED. 188.0 * NU UMSERVATIONS PECUNDED.	SPECIES: D SEX: FEMALE GRUDP: 7/5 Mb/KG INTIAL "Elbhi: 169.0 Gwans Infe: laissou Reason: Deau Glarailthe id: Ubadousay Ervaliuns	CEEGAIOR ISRANSI LLIMICAL DRSEQUATIONS OUTSTAN OUTSTAN
JPECIES: D SEX: JPITIAL MEIGHT: JIME: 7:58:50	16kansi 16kansi 102.0 204.0 196.0	PECIFS: D SEX: VITAL MEIGHT: TIME: 14:53:46		PECIES: 1) SEX: VITIAL PEIGHT: IIME: 1A:15:00	175.0 197.0 197.0
14 35 S	DEEMAIDE 0.33743 0.059406 0.053130 0.033743 0.433130	SPECIFS: D S INITAL MEI /** TIME: 14: UUSERVATIUNS	DEEABLON 0035743 0035743 0045150 0045150	* S	CCEcalor 0v3y43 0v5y440 0v6y4v6 0v6y4v6 0v4y130
4.1%4 17: 640005/5 41474 1875: 12/05/83 4E%UVAL DATE: 2/01/84	7.54.30 1c:06:3c 1v:19:60 9:c2:24	.: 12/05/8. Te: 1/51,	11:54:45 14:34:56 14:34:56 14:14:20 5:19:40 9:26:56	04J9US49 : 12/US/83 TE: 1/51/	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
A - FOAL DO	Dalk 2/01/84 1/31/84 1/31/84 1/50/84	Animal in: babbbsas gikim date: 12/u5/as Removal date: 1/si/ku	1/31/84 1/31/84 1/31/84 1/31/84 1/30/84	A.1*1 10: 00.00509 Alfin Date: 12/05/83 Memoval Date: 1/51/Am	1/31/64 1/31/64 1/31/64 1/30/64 1/30/64

Individual Body Weights in Grams 278 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84D00454	170	236	287	322	338	363	127
84D00456	172	240	290	325	347	366	126
84D00463	173	244	287	311	332	356	112
84D00472	152	232	276	320	334	356	124
84D00491	126	198	236	278	297	320	122
84D00501	162	232	264	290	293	325	93
84D00502	132	201	245	288	309	343	142
84D00514	172	229	273	305	321	345	116
84D00519	132	220	269	314	347	373	153
Mean (154.6	225	269.7	305	324.2	349.7	123.9
Range	126-173	198-244	236-290	278-325	293-347	320-373	93-153
Standard Deviation	19.63	16.38	18.84	16.83	20.44	18.11	17.14
Std. Error of Means	6.54	5.46	6.28	5.61	6.81	6.07	5.71

^{*}Weight change is from day of dosing to termination.

Individual Body Weights in Grams 278 mg(hase)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84D00525	156	184	Misdosed	-	-	_	-
84D00529	135	160	188	209	215	223	63
84D00533	144	162	194	210	220	224	62
84D00537	139	178	216	226	236	245	67
84D00544	130	154	187	208	212	228	74
84D00560	143	177	209	231	238	243	66
84000585	135	167	183	199	209	211	44
84D00592	128	176	190	212	226	240	64
84D00595	122	161	177	193	200	210	49
Mean	136.9	168.8	193.0	211.0	219.5	228.0	61.1
Range	122-156	154-184	177-216	193-231	200-238	210-245	44-74
Standard Deviation	10.08	10.26	13.16	12.58	13.22	13.69	9.83
Std. Error of Means	3.36	3.42	4.65	4.49	4.68	4.84	3.48

^{*}Dosing to termination.

Individual Body Weights in Grams 360 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84D00457	173	226	265	293	307	331	105
84 D 00466	161	210	246	280	291	278	68
84D00467	170	226	270	302	328	357	131
84D00476	170	229	267	301	311	329	100
84D00482	170	229	226	274	296	319	90
84D00495	137	213	258	306	319	344	131
84000508	173	236	276	312	334	353	117
84D00512	168	238	287	330	344	373	135
84D00518	153	232	268	318	337	378	146
Mean	163.9	226.6	262.6	301.8	316.6	340.2	113.7
Range	137-173	210-238	226-287	274-330	291-344	278-378	68-1
Standard Deviation	11.96	9.49	17.75	17.70	18.62	30.60	25.0
Std. Error of Means	3.99	3.16	5.92	5.90	6.20	10.20	8.35

^{*}Dosing to termination.

CONTROL MANAGEMENT CONTROL OF

Individual Body Weights in Grams 360 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84D00528	149	165	191	213	221	236	71
84D00536	151	167	198	210	217	227	60
84D00561	145	175	198	215	225	224	49
84D00566	128	165	Dead	-	-	-	-
84DO0570	120	154	Dead	-	_	-	-
84D00572	143	181	206	281	257	276	95
84D00584	130	159	181	208	220	235	76
84000590	130	147	176	199	206	213	66
84D00593	139	166	Misdose	-	-	-	-
Mean	137.2	164.3	191.7	214.3	224.3	235.2	69.5
Range	120-151	147-181	176-206	199-241	206-257	213-276	49-9
Standard Deviation	10.67	10.28	11.36	14.19	17.25	21.68	15.6
Std. Error of Means	3.56	3.41	4.64	5.80	7.04	8.85	6.3

^{*}Dosing to termination.

Individual Body Weights in Grams 464 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84D00451	166	235	Dead	_	-	-	-
84D00470	174	222	245	287	301	319	97
84D00483	167	229	262	299	301	331	102
84D00492	130	214	238	290	316	349	135
84D00493	137	216	271	322	341	369	153
84D00504	168	237	267	322	321	3 58	121
84D00513	140	222	Dead	-	-	-	-
84D00516	121	185	214	253	278	314	129
84D00522	126	211	259	304	331	370	159
Mean	147.7	219.0	250.9	296.7	312.7	344.3	128
Range	121-174	185~237	214-271	253-322	278-341	314-370	97-15
Standard Deviation	20.86	15.62	20.06	23.76	21.19	23.15	23.53
Std. Error of Means	6.95	5.21	7.58	8.98	8.01	8.75	8.89

^{*}Dosing to termination.

Server Contracts Servers Contract Contract

AND CONTRACTOR OF THE PROPERTY OF

Individual Body Weights in Grams 464 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84D00527	157	174	193	224	230	234	60
84D00535	129	155	Dead	-	-	-	-
84D00552	132	161	200	225	237	243	82
84D00557	130	150	Dead	-	-	-	-
84D00571	128	177	Dead	-	-		-
84D00578	142	159	Dead	-	-	-	•
84D00579	152	186	204	226	231	235	49
84D00586	144	174	Dead	-	-	-	-
84D00591	132	159	188	199	209	223	35
Mean	138.4	166.1	196.3	218.5	226.8	233.8	56.5
Range	128-157	150-186	188-204	199-226	209-237	223-243	49-8
Standard Deviation	10.75	11.98	7.14	13.03	12.23	8.22	19.8
Std. Error of Means	3.58	3.99	3.57	6.51	6.12	4.11	9.9

^{*}Dosing to termination.

Individual Body Weights in Grams 600 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84000455	171	225	Dead	-	-	-	-
84000459	163	238	271	316	332	361	123
84D00465	161	237	265	305	320	345	108
84D00469	168	223	Dead	-	-	-	-
84D00481	166	225	253	297	314	330	105
84D00486	152	218	Dead	-	-	-	-
84D00499	138	198	Dead	-	-	-	-
84D00511	129	200	200	239	261	293	93
84D00515	124	206	Dead	-	-	-	-
Mean	152.4	218.9	247.3	289.3	306.8	332.3	107.3
Range	124-171	198-238	200-271	239-316	261-332	293-361	93-12
Standard Deviation	17.76	14.77	32.38	34.39	31.40	29.07	12.34
Std. Error of Means	5.92	4.92	16.19	17.20	15.70	14.53	6.17

^{*}Dosing to termination.

AND THE PROPERTY OF THE PROPER

Individual Body Weights in Grams 600 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84D00531	128	153	Dead	-	-	-	-
84D00550	150	186	Misdose	-	-	-	-
84D00551	129	147	182	193	189	200	53
84D00554	155	186	Dead	-	-	-	-
84D00558	130	155	Dead	-	-	-	-
84D00564	137	174	183	216	231	244	70
84D00569	141	190	Mi sdose	-	-	-	-
84D00574	132	174	Dead	-	-	-	-
84D00582	145	169	180	209	214	223	54
Mean	138.6	170.4	181.7	206.0	211.3	222.3	59
Range	128-155	147-190	180-183	193-216	189-231	200-244	53-7
Standard Deviation	9.81	15.76	1.53	11.79	21.13	22.01	9.5
Std. Error of Means	3.27	5.25	0.88	6.81	12.20	12.71	5.5

^{*}Dosing to termination.

Individual Body Weights in Grams 775 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
84000453	167	238	Dead	-	-	-	-
84D00462	166	228	Dead	-	-	-	-
84D00478	157	213	Dead	-	-	-	-
84D00480	160	226	Dead	-	-	-	-
84000487	142	206	Dead	-	-	-	-
84D00503	156	199	Dead	-		-	-
84D00510	128	195	Dead	-	-	-	-
84 D0052 0	120	197	Dead	-	-	-	-
84D00521	163	238	Dead	-	-	-	-
Mean	151.0	215.6					
Range	120-167	195-238					
Standard Deviation	17.10	17.36					
Std. Error of Means	5.70	5.79					

^{*}Dosing to termination.

Individual Body Weights in Grams 775 mg(base)/kg

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change	
84D00524	138	170	Dead	-	_	-	-	
84D00526	152	177	Dead	-	-	-	-	
84D00553	152	190	Dead	-	-	-	-	
84D00559	134	166	Dead	-	-	-	-	
84D00562	123	1 52	Dead	-	-	-	-	
84D00565	133	156	Dead	-	-	-	-	
84D00575	149	182	Dead	-	-	-	-	
84D00588	142	174	Dead	-	-	-	-	
84D00589	141	175	Dead	-	-	-	-	
Mean	140.4	171.3					••	
Range	123-152	152-190					•	
Standard Deviation	9.68	12.01						
Std. Error of Means	3.23	4.00						

^{*}Dosing to termination.

Individual Body Weights in Grams Vehicle Control

Male and Female

Animal No.	Receipt	Dosing	Day 3	Day 7	Day 10	Termination Day 14	Weight* Change
MALE							
84D00460	166	225	266	293	314	342	117
84D00474	164	226	276	318	336	359	133
84D00475	164	223	261	293	307	325	102
84100489	168	233	285	320	337	159	126
04D00496	143	218	264	300	323	351	133
Mean	161	225	270	304.8	323.4	347.2	122.2
Range	143-168	218-233	261-285	293-320	307-337	325-359	102-13
Standard Deviation	10.20	5.43	10.68	13.29	13.46	14.25	13.07
Std. Error of Means	4.56	2.43	4.78	5.94	6.02	6.38	5.84
FEMALE							
84000530	126	164	196	211	218	234	70
84000543	139	1 52	178	194	201	204	52
84D00563	145	162	188	198	201	214	52
84D00576	140	168	193	206	214	218	50
84D00583	142	175	204	224	230	238	63
Mean	138.4	164.2	191.8	206.6	212.8	221.6	57.4
Range	126-145	152-175	178-204	194-224	201-230	204-238	50-70
Standard Deviation	7.30	8.44	9.65	11.78	12.27	14.17	8.71
Std. Error of Means	3.27	3.77	4.32	5.27	5.49	6.34	3.89

^{*}Dosing to termination.

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Individual Body Weights in Grams Cage Centrol

Male and Female

Animal No.	Receipu	Dosing	Day 3	Day 7	D.iy 10	Termination Day 14	Weight* Change	
MALE								
84D00464	155	224	268	305	319	339	115	
84D00484	160	215	261	295	309	320	105	
84D00498	166	238	2 9 0	327	347	369	131	
84D00505	128	220	270	315	337	367	147	
84D00509	142	210	252	290	297	316	106	
Mean	150.2	221.4	268.2	306.4	321.8	342.2	120.8	
Range	128-166	210-238	252-290	290~327	297-347	316-369	105-14	
Standard Deviation	15.24	10.67	14.08	14.99	20.38	25.11	17.98	
Std. Error of Means	6.81	4.77	6.30	6.71	9.11	11.23	8.04	
FEMALE								
84D00540	145	163	190	206	206	214	51	
84D00542	151	177	206	221	229	239	62	
84D00573	157	180	199	223	226	233	53	
84D00587	152	171	205	219	225	238	67	
84D00594	128	170	201	212	219	231	61	
Mean	146.6	172.2	200.2	216.2	221	231	58.8	
Range	128-157	163~180	190-206	206-223	206-229	214-239	51-61	
Standard Deviation	11.24	6.61	6.38	7.05	9.14	10.07	6.65	
Std. Error of Means	5.03	2.97	2.85	3.15	4.09	4.51	2.97	

^{*}Dosing to termination.

PATHOLOGY REPORT

GLP Study 83-019

Oral Lethal Dose (LD₅₀) Test in Rats of Guanidine.HCL (CH₅N₃HCL) (CAS No. 22661-87-6)

History: The male and female Sprague-Dawley rats in this study were divided into 7 groups. All groups but the cage controls received a single dose of vehicle or vehicle and test compound by oral gavage. The solution dosed with, dosage level, and number of rats in each group were as follow:

```
Group 1 (278 mg/kg) - 9 males, 8 females.

Group 2 (360 mg/ml) - 9 males, 8 females.

Group 3 (464 mg/ml) - 9 males, 9 females.

Group 4 (600 mg/ml) - 9 males, 7 females.

Group 5 (775 mg/ml) - 9 males, 9 females.

Group 6 (Vehicle Controls) - 5 males, 5 females.

Group 7 (Cage Controls) - 5 males, 5 females.
```

Thirty-six rats were found dead between 3 hours and 56 minutes and 46 hours and 42 minutes after being dosed with test compound.

The remaining rats survived until completion of the study 14 days after dosing. The rats were anesthetized with pentobarbital, intraperitoneal injection, and killed by exsanguination from severed axillary vessels.

Gross necropsy findings: Twenty-one of the 36 rats that died had gross lesions that were due to the tested material. The test related lesions were restricted to the digestive system and consisted of black/serosanguineous material in the stomach, focal depressions in the glandular mucosa of the stomach, multifocal to diffuse red areas in the glandular mucosa of the stomach, black and tarry material in the intestine, and black and tarry feces. Each of the 21 rats had one or more of these lesions. Multifocal to diffuse red areas in the glandular mucosa of the stomach was the most common lesion and was present in 2/5* males in group 4,

^{*}Number of rats affected/number of rats in the group, or number of rats affected/number of rats that died.

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7/9 males in group 5, 1/2 females in group 2, 1/5 females in group 3, 3/4 females in group 4, and 6/9 females in group 5.

Other findings consisted of a wet muzzle and brown material (most likely porphyrin) on the muzzle, forepaws, and hair around the eyes. These findings were considered to be nonspecific.

Postmortem autolysis (PMA) was present in 1 male and 1 female rat. The thymus of the male contained red foci that were due to autolytic change.

No gross lesions (NGL) were observed in 1 male rat in group 4 and 2 female rats in group 3 that died.

Necropsies revealed no test compound related gross lesions in male or female rats that were killed at termination of the study. Two male rats and 1 female rat had a unilateral dilated renal pelvis, which is considered to be an incidental congenital lesion. One male rat had a solitary linear white focus in the liver that was due to the injection of pentobarbital.

Microscopic Findings: Several rats exhibited central nervous system (CNS) signs. Some rats that exhibited CNS signs died and others survived. The cerebrum, brainstem, and cerebellum of 4 of these rats that died (84D00451, 84D00462, 84D00469, 84D00557) were examined by light microscopy and no lesions were observed.

Table: Summary of Deaths and Lesions by Group

Male					Female								
1	2	3	4	5	6	7	1	2	3	4	5	6	:
9	9	9	9	9	5	5	8	8	9	7	9	5	•
								6	6	3	0	5	•
_	_	2	5	9	_	-		2	5	4	9		
		_	_	•				_	_	•	_		
			2						1				
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			-										
			2	7				1	1	3	6		
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•		1					•						
•	9	1 2 9 9 8 9	1 2 3 9 9 9 8 9 6 2	1 2 3 4 9 9 9 9 8 9 6 5 2 5 2	1 2 3 4 5 9 9 9 9 9 8 9 6 5 0 2 5 9 2	1 2 3 4 5 6 9 9 9 9 9 5 8 9 6 5 0 5 2 5 9 2	1 2 3 4 5 6 7 9 9 9 9 9 5 5 8 9 6 5 0 5 5 2 5 9 2	1 2 3 4 5 6 7 1 9 9 9 9 9 5 5 8 8 9 6 5 0 5 5 7 2 5 9	1 2 3 4 5 6 7 1 2 9 9 9 9 9 5 5 8 8 8 9 6 5 0 5 5 7 6 2 5 9 2 2	1 2 3 4 5 6 7 1 2 3 9 9 9 9 9 5 5 8 8 9 8 9 6 5 0 5 5 7 6 6 2 5 9 2 5 2 1 1	1 2 3 4 5 6 7 1 2 3 4 9 9 9 9 9 5 5 8 8 9 7 8 9 6 5 0 5 5 7 6 6 3 2 5 9 2 5 4 2 1 1	1 2 3 4 5 6 7 1 2 3 4 5 9 9 9 9 9 5 5 8 8 9 7 9 8 9 6 5 0 5 5 7 6 6 3 0 2 5 4 9 2 1 1 1 3 6	1 2 3 4 5 6 7 1 2 3 4 5 6 9 9 9 9 9 5 5 8 8 9 7 9 5 7 6 6 3 0 5 5 2 5 4 9 2 1 1 2 7 1 1 3 6

Table: Summary of Deaths and Lesions by Group (Cont'd)

	Male	Female						
Group #:	1 2 3 4 5 6 7	1 2 3 4 5 6 7						
Rats per group:	9999955	8 8 9 7 9 5 5						
NGL:	8 9 6 5 0 5 5	7663055						
Died:	259	2549						
Muzzle:								
Wet	239	1 3 3 8						
Brown material	1							
Forepaws: Brown material	1							
Eyes: Brown material	4 6	2 4						
Thymus: Red foci	1							
PMA: Generalized	1	1						

Summary:

- 1. Gross lesions, due to the tested compound, were present in the digestive system of 10/16 male and 11/20 female rats that died.
- 2. The number and pattern of deaths suggest a dose response in the male and female rats.
- 3. No test related gross lesions were observed in male or female rats that were cage controls, vehicle controls or dosed with tested compound that were killed at completion of the test.

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MAJ, VC

Assistant Chief, Pathology Services Group 21 March 1984

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